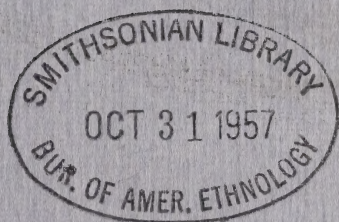


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ANNUAL REPORT

1956



Chicago Natural History Museum



MARSHALL FIELD III
1893—1956

Member of the Board of Trustees since 1914
Member of the Executive Committee since 1915
First Vice-President since 1946

CHICAGO NATURAL HISTORY MUSEUM

Report of the Director

to the

Board of Trustees

for the year 1956



CHICAGO, ILLINOIS

1957

PRINTED IN THE UNITED STATES OF AMERICA
BY CHICAGO NATURAL HISTORY MUSEUM PRESS

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CHICAGO NATURAL HISTORY MUSEUM
FORMERLY FIELD MUSEUM OF NATURAL HISTORY
ROOSEVELT ROAD AND LAKE SHORE DRIVE



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* deceased

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DIRECTORS	FREDERICK J. V. SKIFF*	1893-1921
	D. C. DAVIES*	1921-1928
	STEPHEN C. SIMMS*	1928-1937

* deceased

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Building—Joseph N. Field, William H. Mitchell, Lester Armour, Louis Ware

Auditing—Wm. McCormick Blair, Clarence B. Randall, Marshall Field, Jr., Louis Ware

Pension—Hughston M. McBain, Sewell L. Avery, John G. Searle, John T. Pirie, Jr.

* deceased

LIST OF STAFF 1956

CLIFFORD C. GREGG, Sc.D., Director
JOHN R. MILLAR, Deputy Director
E. LELAND WEBBER, B.B.Ad., C.P.A., Executive Assistant

DEPARTMENT OF ANTHROPOLOGY

PAUL S. MARTIN, Ph.D., Chief Curator
DONALD COLLIER, Ph.D., Curator, South American Archaeology and Ethnology
GEORGE I. QUIMBY, A.M., Curator, North American Archaeology and Ethnology
JOHN B. RINALDO, Ph.D., Assistant Curator, Archaeology
ELAINE BLUHM, M.S., Assistant, Archaeology
M. KENNETH STARR, M.A., Curator, Asiatic Archaeology and Ethnology
ROLAND W. FORCE, M.A., Curator, Oceanic Archaeology and Ethnology
EVETT D. HESTER, M.S., Thomas J. Dee Fellow, Anthropology
ALLEN S. LISS, A.B., Assistant, Anthropology
ALFRED LEE ROWELL, Dioramist
GUSTAF DALSTROM, Artist
WALTER BOYER, B.F.A., Ceramic Restorer
WALTER C. REESE, Preparator
AGNES H. McNARY, B.A., Departmental Secretary

ROBERT J. BRAIDWOOD, Ph.D., Research Associate, Old World Prehistory
FAY-COOPER COLE, Ph.D., Sc.D., LL.D., Research Associate, Malaysian Ethnology
MIGUEL COVARRUBIAS, Research Associate, Primitive Art
A. L. KROEBER, Ph.D., Research Associate, American Archaeology
J. ERIC THOMPSON, Dipl.Anth.Camb., Research Associate, Central American Archaeology

DEPARTMENT OF BOTANY

THEODOR JUST, Ph.D., Chief Curator
B. E. DAHLGREN, D.M.D., Curator Emeritus
JULIAN A. STEYERMARK, Ph.D., Curator, Phanerogamic Herbarium
J. FRANCIS MACBRIDE, Curator, Peruvian Botany
FRANCIS DROUET, Ph.D., Curator, Cryptogamic Herbarium
JOHN W. THIERET, Ph.D., Curator, Economic Botany
J. S. DASTON, Sc.D., Assistant, Botany
EMIL SELLA, Curator of Exhibits
SAMUEL H. GROVE, JR., Artist-Preparator
FRANK BORYCA, Technician
WALTER HUEBNER, Preparator

DEPARTMENT OF BOTANY (CONTINUED)

EDITH M. VINCENT, A.B., Research Librarian
M. DIANNE MAURER, A.B., Departmental Secretary*
MARILYN JASKIEWICZ, Departmental Secretary

E. P. KILLIP, A.B., Research Associate, Phanerogamic Botany
DONALD RICHARDS, Research Associate, Cryptogamic Botany
EARL E. SHERFF, Ph.D., Research Associate, Systematic Botany
HANFORD TIFFANY, Ph.D., Research Associate, Cryptogamic Botany
MARGERY C. CARLSON, Ph.D., Associate, Botany
ARCHIE F. WILSON, Associate, Wood Anatomy

DEPARTMENT OF GEOLOGY

SHARAT K. ROY, Ph.D., Chief Curator
WILLIAM D. TURNBULL, Assistant Curator, Fossil Mammals
RAINER ZANGERL, Ph.D., Curator, Fossil Reptiles
ROBERT H. DENISON, Ph.D., Curator, Fossil Fishes
DAVID TECHTER, B.S., Assistant, Fossil Vertebrates
EUGENE S. RICHARDSON, JR., Ph.D., Curator, Fossil Invertebrates
GEORGE LANGFORD, Ph.B., Curator, Fossil Plants
ROBERT K. WYANT, B.S., Curator, Economic Geology†
NORMAN H. SUHR, M.A., Associate Curator, Mineralogy and Petrology*
ALBERT WILLIAM FORSLEV, M.S., Associate Curator, Mineralogy and Petrology*
HARRY E. CHANGNON, B.S., Curator of Exhibits
ORVILLE L. GILPIN, Chief Preparator, Fossils
HENRY HORBACK, Assistant
STANLEY KUCZEK, Preparator
HENRY U. TAYLOR, Preparator
CAMERON E. GIFFORD, B.S., Preparator*
BRUCE ERICKSON, Preparator
MAIDI WIEBE, Artist
PHYLLIS M. BRADY, Departmental Secretary

ERNST ANTEVS, Ph.D., Research Associate, Glacial Geology
ALBERT A. DAHLBERG, D.D.S., Research Associate, Fossil Vertebrates
EVERETT C. OLSON, Ph.D., Research Associate, Fossil Vertebrates
BRYAN PATTERSON, Research Associate, Fossil Vertebrates
R. H. WHITFIELD, D.D.S., Associate, Fossil Plants
VIOLET WHITFIELD, B.A., Associate, Fossil Plants

* resigned

† on leave

DEPARTMENT OF ZOOLOGY

AUSTIN L. RAND, Ph.D., Chief Curator
KARL P. SCHMIDT, D.Sc., Curator Emeritus
PHILIP HERSHKOVITZ, M.S., Curator, Mammals
EMMET R. BLAKE, M.S., Curator, Birds
MELVIN A. TRAYLOR, JR., A.B., Assistant Curator, Birds
ROBERT F. INGER, Ph.D., Curator, Amphibians and Reptiles
HYMEN MARX, B.S., Assistant, Reptiles
LOREN P. WOODS, A.B., Curator, Fishes
PEARL SONODA, Assistant, Fishes
RUPERT L. WENZEL, B.A., Curator, Insects
WILLIAM J. GERHARD, Curator Emeritus, Insects
HENRY S. DYBAS, B.S., Associate Curator, Insects
AUGUST ZIEMER, Assistant, Insects
FRITZ HAAS, Ph.D., Curator, Lower Invertebrates
G. ALAN SOLEM, Ph.D., Assistant, Lower Invertebrates
D. DWIGHT DAVIS, Curator, Vertebrate Anatomy
PHYLLIS WADE, B.S., Assistant
SOPHIE ANDRIS, Osteologist
RONALD J. LAMBERT, Taxidermist
CARL W. COTTON, Taxidermist
DOMINICK VILLA, Tanner
JOSEPH B. KRSTOLICH, Artist
LAURA BRODIE, Assistant, Zoology*
RUTH ANDRIS, Departmental Secretary

GREGORIO BONDAR, Research Associate, Insects
RUDYERD BOULTON, B.S., Research Associate, Birds
ALFRED E. EMERSON, Ph.D., Research Associate, Insects
CH'ENG-CHAO LIU, Ph.D., Research Associate, Reptiles
ORLANDO PARK, Ph.D., Research Associate, Insects
CLIFFORD H. POPE, B.S., Research Associate, Amphibians and Reptiles
CHARLES H. SEEVERS, Ph.D., Research Associate, Insects
R. M. STRONG, Ph.D., Research Associate, Anatomy
ROBERT TRAUB, Ph.D., Research Associate, Insects
ALEX K. WYATT, Research Associate, Insects
LUIS DE LA TORRE, M.S., Associate, Mammals
MARION GREY, Associate, Fishes
WALDEMAR MEISTER, M.D., Associate, Anatomy
EDWARD M. NELSON, Ph.D., Associate, Fishes
KARL PLATH, Associate, Birds
LILLIAN A. ROSS, Ph.B., Associate, Insects
ELLEN T. SMITH, Associate, Birds

* resigned

DEPARTMENT OF ZOOLOGY (CONTINUED)

ROBERT L. FLEMING, Ph.D., Field Associate
GEORG HAAS, Ph.D., Field Associate
HARRY HOOGSTRAAL, M.S., Field Associate
FREDERICK J. MEDEM, Sc.D., Field Associate
DIOSCORO S. RABOR, M.S., Field Associate

DEPARTMENT OF THE N. W. HARRIS PUBLIC SCHOOL EXTENSION

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ALBERT J. FRANZEN, Preparator and Taxidermist
ARTHUR J. SODERLING, Assistant Preparator*
ALMON COOLEY, Assistant Preparator
BERTHA M. PARKER, M.S., Research Associate

JAMES NELSON AND ANNA LOUISE RAYMOND FOUNDATION FOR PUBLIC SCHOOL AND CHILDREN'S LECTURES

MIRIAM WOOD, M.A., Chief	DOLLA COX, A.B.
MARIE SVOBODA, M.A.	ELLEN MILLER
HARRIET SMITH, M.A.	MARYL ANDRÉ, B.S.
EDITH FLEMING, M.A.	

THE LIBRARY OF THE MUSEUM

Administration

META P. HOWELL, B.L.S., Librarian
M. EILEEN ROCOURT, M.A., Associate Librarian
MARJORIE A. WEST, A.B., Assistant to the Librarian

Classification and Cataloguing

MARYL ANDRÉ, B.S.†
HOSHIEEN TCHEN, Ph.D., Technical Adviser, Oriental Collection

Reference

DONNA G. GROVE, B.A.*
EUGENIA BERNOFF

Accessions, Binding, Stacks

BORIS IVANOV, Dipl.Law
GEORGE STOSIUS, M.E.

* resigned

† reassigned

ASSOCIATE EDITORS OF MUSEUM PUBLICATIONS

LILLIAN A. ROSS, Ph.B., Scientific Publications

MARTHA H. MULLEN, B.A., Assistant

HELEN ATKINSON MACMINN, A.M., Miscellaneous Publications

PUBLIC RELATIONS COUNSEL

H. B. HARTE

JANE ROCKWELL, B.A., Associate

DIVISION OF MEMBERSHIPS

PEARLE BILINSKE, in charge

ADMINISTRATION AND RECORDS

SUSANMARY CARPENTER, B.A., Secretary to the Director

MARION G. GORDON, B.S., Registrar

LORRAINE KRATZ, Assistant Registrar*

FOREST HIGHLAND, Assistant Recorder

HILDA NORDLAND, Assistant Recorder

JEANETTE FORSTER, Assistant Recorder

ACCOUNTING

ROBERT A. KRUEGER, Auditor*

MARION K. HOFFMANN, Acting Auditor

ROBERT E. BRUCE, Purchasing Agent

THE BOOK SHOP

JESSIE DUDLEY, in charge

DIVISIONS OF PHOTOGRAPHY AND ILLUSTRATION

JOHN BAYALIS, Photographer

HOMER V. HOLDREN, Assistant

CLARENCE B. MITCHELL, B.A., Research Associate, Photography

E. JOHN PFIFFNER, Staff Artist

MARION PAHL, B.F.A., Staff Illustrator

* resigned

DIVISION OF MOTION PICTURES

JOHN MOYER, in charge

DIVISION OF PRINTING

RAYMOND H. HALLSTEIN, SR., in charge

HAROLD M. GRUTZMACHER, Assistant

DIVISION OF MAINTENANCE

JAMES R. SHOUBA, Superintendent

GUSTAV A. NOREN, Assistant Superintendent

DIVISION OF ENGINEERING

WILLIAM E. LAKE, Chief Engineer

LEONARD CARRION, Assistant Chief Engineer

THE GUARD

DAVID DUNSMUIR, Captain¶

FRANK MEINKE, Acting Captain

¶ deceased

ON NEXT PAGE

DINOSAURS, PREDATOR AND PREY
GORGOSAURUS AND LAMBEOSAURUS
A NEW EXHIBIT
IN STANLEY FIELD HALL



Annual Report

of the Director

To the Trustees:

I have the honor to present a report of the operation of the Museum for the year ending December 31, 1956.

Perhaps the outstanding event of the year was the installation in Stanley Field Hall of an exhibit consisting of two dinosaur skeletons—those of *Gorgosaurus* and *Lambeosaurus*, dinosaurs that roamed the earth about 75 million years ago in an area now known as Alberta, Canada. It was felt that only in Stanley Field Hall could this important group be seen to advantage (see facing page). It now shares the spotlight with the two Akeley elephants, which are so well known as to be almost a Museum trademark. The installation of the dinosaurs was celebrated by a special evening for Members, when the Board of Trustees officially presented the group as their personal gift to the Museum (see page 24). The tremendous popular interest in this installation was evidenced by the large amount of publicity in newspapers and magazines. Its world-wide impact is indicated by stories in the daily papers of Dublin, Ireland, and Sydney, Australia, and by a feature article in the magazine of UNESCO (see page 71, Public Relations).

Other outstanding improvements in the Museum's exhibition program were achieved on the ground floor of the east wing of the building by reinstallations in the halls housing Melanesian, Polynesian, Micronesian, Indonesian, and Australian ethnological ex-

hibits (see page 45). Exhibits of special timely interest were prepared to indicate the interesting and unusual life cycle of the so-called 17-year locust and to illustrate the causes of the Dutch elm disease and its effects on American shade trees (see page 35).

The East Asian Library on the third floor of the Museum, through the acquisition of many splendid new volumes and the careful cataloguing and arrangement of our previous collections including the Laufer Library, has achieved prominence as an outstanding source of reference material in its field (see page 68).

Financial difficulties continued to be a matter of major concern of the Museum's administration, in spite of an increase of almost \$58,000 in tax support. Rising prices due to continuing inflation, together with a decrease of over \$31,000 from real-estate investments, indicate the need of additional income or a reduction in the services of the Museum to the public. Economy in operation has always been practiced at the Museum and application of more stringent curtailment of expenditures can be made only at a sacrifice of long-cherished plans for expansion and improvement.

ATTENDANCE

An increase of 28,836 persons brought the total of Museum visitors during the year to 1,101,512. Of this total only 11.7 per cent paid the nominal twenty-five cent admission while the others either attended on the free days (Thursday, Saturday, and Sunday) or were members of categories who are exempt at all times from admission fees. The increasing attendance was quite marked during the first seven months of the year, but August, usually the peak month, showed a sudden drop so that August totaled some 23,000 less than July. The unfortunate increase in polio in Chicago, which almost reached epidemic proportions, caused Chicago citizens to avoid large crowds. This was noted not only at our Museum but at the other museums and zoos of the city and in private entertainment-ventures as well. It was only in November and December that the Museum again showed increased attendance over the corresponding months of the previous year, this increase being the result of the season and of the very effective educational program of the Museum's Raymond Foundation (see page 30). May continued to be the peak month for organized-group attendance, with 1,039 groups and 49,657 students and teachers. The largest group of the year (approximately 1,350) was, as usual, the delegates to the National Congress of 4-H Clubs.

TRUSTEES AND OFFICERS

The death of Marshall Field III in November brought to a close his forty-two years of service as a member of the Board of Trustees and left a gap that will be most difficult to fill. His deep-seated interest in the success and in the problems of the Museum and his concern for its employees had endeared him in a unique way to the staff of the Museum and to his fellow members of the Board. In his memory the Board of Trustees adopted the following resolution:

MARSHALL FIELD III

1893-1956

"All Chicago mourned the death on November 8, 1956, of Marshall Field. Those who were not personally acquainted with him knew what he stood for and realized that the Chicago community was poorer because of his passing.

"Born in Chicago on September 28, 1893, he was the third to bear the name of Marshall Field, a name tied into the history of Chicago for the past century. He was not content, however, to rest on the family laurels of the past but interested himself in many new fields of endeavor. In addition to merchandising, Mr. Field established himself as an investment banker, a publisher, patron of the arts, and philanthropist.

"At the outbreak of World War I, Marshall Field enlisted as a private in an artillery regiment and rose to the rank of captain in active combat service. He was decorated for bravery under fire. On returning to civilian life, he planned carefully the use of the fortune that he had inherited. He was a lavish donor to the then 'Field Museum,' as well as to other worthy enterprises that challenged his interest. He established the Field Foundation in order to make certain that his benefactions would reach charitable or cultural enterprises after careful investigation of their objectives and operations.

"Marshall Field became a member of the Board of Trustees of Field Museum of Natural History in 1914 at the age of twenty-one and continued as such until the time of his death. He was a member of the Executive Committee since 1915 and served as First Vice-President since 1946. In addition to being elected a Benefactor by the Board of Trustees, he was further honored by election as an Honorary Member of the Museum in recognition of his eminent service to science.

"To the Museum staff he was known as a genial member of the Board, who was interested not only in the accomplishments of the institution but also in the well-being of its employees. Over a period of many years his contributions had purchased collections and equipment, financed expeditions, provided employee benefits, and paid off annual operating deficits. Yet he sought nothing for himself and even joined with the President of the Board in asking that the Museum drop the name of 'Field' and be known forever after as Chicago Natural History Museum.

"The Board of Trustees of the Museum deeply regrets the untimely termination of his services and fellowship. His sincerity and deep concern, his quiet modesty, and his warm friendship will be greatly missed and always remembered.

"Therefore, be it resolved that this expression of our sorrow at his death be permanently preserved in the records of the Board of Trustees of the Museum;

"And be it further resolved that our deep sympathy be conveyed to the members of his family and that a copy of this resolution be sent to his widow."

OFFICERS, 1956

On completion of his forty-seventh year of service as President of the Museum, Stanley Field was unanimously and enthusiastically re-elected to continue in office for his forty-eighth year. All other officers of the Board of Trustees were also re-elected and committee assignments continued unchanged.

DINOSAUR NIGHT AT THE MUSEUM

On Dinosaur Night, March 27, described in more detail later in this Report (see Department of Geology, page 58), Hughston M. McBain presented to the Museum in behalf of the Trustees, who had purchased the *Gorgosaurus* and subsidized mounting, the striking exhibit now permanently installed in Stanley Field Hall (see page 20; also Annual Reports 1954, page 21, and 1955, page 56). The exhibit was accepted for the Museum by President Stanley Field. The occasion furnished an opportunity to introduce to the assembled Members and guests of the Museum the Members of the Board of Trustees who were able to be present. President Field had returned from Florida and Mr. McBain from Arizona for the presentation.

GIFTS TO THE MUSEUM

The Museum received \$122,216.04 for the Martin A. and Carrie Ryerson Fund from the distribution of the William Dwight Darrow Trust Fund established by Mrs. Ryerson, \$20,000 from the Shirley Farr Bequest Fund, and \$698.14 from the estate of the late Mrs. Abby K. Babcock. Stanley Field gave \$34,500, of which \$5,240.20 was for refund of the operating deficit of the Museum and \$29,259.80 for endowment. Dr. Maurice L. Richardson, of Lansing, Michigan, added \$2,250 to the Maurice L. Richardson Paleontological Fund; Sewell L. Avery, Trustee, gave \$1,000 to the Dinosaur Fund (see Annual Report 1954, page 21); Miss Margaret Conover, of Chicago, added \$825 more to the Conover Game-bird Fund, which was established by her brother, the late Boardman Conover, a Trustee of the Museum and Research Associate in the Division of Birds; and C. Suydam Cutting, of New York, an Honorary Member of the Museum, added \$750 to the C. Suydam Cutting Fund. The Herbarium Purchase Fund received \$2,000 from an anonymous donor, \$500 from Louis Ware, Trustee, and \$100 from George A. Richardson, Trustee. By their gifts in his memory Museum employees established the Commander Frank V. Gregg Memorial Fund, to which additional contributions were made by Lester Armour, Wm. McCormick Blair, Stanley Field, John G. Searle, and Clifford C. Gregg.

The Gemological Institute of America gave \$600 in appreciation of the Museum's courtesies. Other gifts of funds came from American Psychoanalytic Association, George A. Bates, Wm. McCormick Blair, Mrs. Sidney M. Bloss, Henry A. Bruckner, Peder A. Christensen, Dr. Jack P. Cowan, Flexible Steel Lacing Company, Gaylord Donnelley Foundation, Edgar Heymann, Samuel Insull, Jr., Kraft Foods Company, Hughston M. McBain, Mrs. R. C. McQuillen, National Society of Colonial Dames of America (Illinois), Oscar Mayer Foundation, Incorporated, Henry Pope, Jr., Mr. and Mrs. Reuben Schutz, Sigmund Silberman Foundation, Society of Colonial Wars (Illinois), Miss Edith G. Turtle, and Mrs. Richard Zickman.

Those who have given \$1,000 to \$100,000 in money or materials are elected Contributors by the Board of Trustees (see page 112 for roster of Contributors). Contributors elected in 1956 are: Albert L. Arenberg, Mrs. Claire S. Arenberg, Dr. J. Ernest Carman, Miss LaVerne Hand, Dr. Ernest Lundelius, Dr. Orlando Park, and Miss Elisabeth Telling. Gifts of materials received during the year are listed at the end of this Report (see page 100) and under the heading "Accessions" in the reports of the scientific departments.

MEMBERSHIP

An increase in the number of Members on the Museum's lists is reported for 1956. At the close of the year the total number of memberships was 5,634. The number of Members in each membership classification was as follows: *Benefactors*—25; *Honorary Members*—8; *Patrons*—15; *Corresponding Members*—4; *Contributors*—206; *Corporate Members*—38; *Life Members*—119; *Non-Resident Life Members*—24; *Associate Members*—2,184; *Non-Resident Associate Members*—18; *Sustaining Members*—31; *Annual Members*—2,962. The Museum expresses its deep appreciation to its many Members whose support helps to make possible the continuance of its research and educational work. The names of all Members of the Museum during 1956 are listed at the end of this Report under the various classes of membership that are offered by the Museum (see also page 25 for names of Contributors elected in 1956).

MEMBERS' NIGHT

A record number of almost 1,400 Members and their guests visited the Museum on October 12, the occasion of its sixth annual Members' Night. Of particular interest was the African king's house, an unusual exhibit consisting of a full-size reproduction of the home of a native king in the Cameroons, with typical wall decorations, furnishings, and personal equipment (see Department of Anthropology, page 45). *The King's Day*, written by Mrs. Webster Plass and published by the Museum, was presented to each visitor as a memento of the occasion. Visitors also were greatly interested in the newly reinstalled halls portraying the cultures of Melanesia, Micronesia, Polynesia, Indonesia, and the Philippines. Offices and workrooms of all departments in the Museum were open for inspection, and staff members again enjoyed the privilege of explaining their work to the loyal supporters of the Museum, many of whom were amazed at the diversity of the Museum's undertakings. Guided tours were available to all who desired them.

The program of the evening was brought to a close in James Simpson Theatre, where Dr. Paul S. Martin, Chief Curator of Anthropology, spoke briefly of the objectives and methods of anthropological research and then introduced Ronald W. Force, Curator of Oceanic Archaeology and Ethnology, who, with appropriate comments, presented the film "Kapingamarangi." This splendid color-film depicting contemporary life among the natives



Reconstruction of an African king's house

of an island in the South Pacific was made available through the courtesy of the Bernice P. Bishop Museum in Honolulu. Many of our exhibits featured on this evening are the finest of their type in the world. They are on permanent display in the Museum for the education and enjoyment of those who are interested in the people who inhabit remote areas of the earth.

Members' Night was held during International Museum Week, for which a special display was arranged in Stanley Field Hall to emphasize the world-wide relationships of our Museum. Stressed was our exchange of publications and specimens with other institutions throughout the world working in our fields of study. Books and specimens were used in connection with world maps to point out the far-flung sources of our research collections (see page 35).

THE N. W. HARRIS PUBLIC SCHOOL EXTENSION

The Department of the N. W. Harris Public School Extension functions for the educational benefit of Chicago school-children by lending to schools Museum exhibits that can be used in classrooms. The exhibits, which cover a wide range of subjects selected from the areas of scientific work of the Museum, are constructed in the work-rooms of the department and are installed in glass-fronted wooden cases fitted with pull-out explanatory labels.

Two trucks operated by the department deliver the exhibits in accordance with a system of regular rotation during the months when school is in session. Two exhibits are delivered on loan to each school in September. On the following tenth school-day the exhibits are picked up and two others are left in their place, and exchanges are then made at intervals of ten school-days until mid-June. The schedule provides delivery of a total of 34 different exhibits to each school during the year, and there is no charge for the service. All public schools of Chicago are eligible, as are private and parochial schools that make application. Whenever possible the department also accepts for routine service applications from public-service institutions that show need for the exhibits.

Practices and procedures established over the years continued in operation. Pick-up of the portable exhibits at the end of the school-year was completed on June 15 and deliveries for the next school-year were begun on September 10. On December 31, 1,032 exhibits were in loan-circulation in the city, and the total of exhibit-loans for the calendar year was 17,580. In carrying out the department's exhibit-loan obligations, the two trucks were in operation 167 days of the year and traveled some 11,000 miles. The schools and institutions on the circulation list at the end of December numbered 516, of which 501 were schools (97 per cent). Of these 501 schools, 401 were public (80 per cent of school circulation), 90 were parochial (18 per cent of school circulation), and 10 were private (2 per cent of school circulation). Fifteen boys' clubs, YMCA's, and settlement houses made up the remaining 3 per cent of the total list.

Damage to exhibits this year was moderately heavy. Twenty-eight exhibits that were recalled from schools because of breakage could be repaired and returned to circulation, and necessary repairs were made on an additional 504. One portable exhibit, the prairie chicken, was destroyed by vandals, and another, an industrial study of dyewoods, was stolen. Exhibit material only was stolen from two other portable cases—a pair of nesting goldfinches and a miniature model of the Cretaceous dinosaur *Trachodon*.

A set of six new exhibits of violets native to Illinois, completed early in the year by Albert J. Franzen, Preparator and Taxidermist, and Arthur J. Soderling, Assistant Preparator, is now in circulation. Also completed are two squirrel exhibits, one identifying tree squirrels, the other ground squirrels. Four old exhibits of white lady's-slipper were renovated by replacement of the flowers.

In addition to routine circulation of portable exhibits, the department filled thirty requests for study-kit material. Most of these requests were from teachers for birdskins, mounted birds, mammal skins, insect hand-cases, and rocks and fossils. At the request of the Philadelphia Academy of Natural Sciences two of the department's standard portable exhibits were lent to them to assist in establishing a similar service there.

LECTURE PROGRAMS FOR ADULTS

The 105th and 106th series of lectures for adult audiences were held in James Simpson Theatre on Saturday afternoons in the spring and fall under the auspices of the Edward E. Ayer Lecture Foundation. This continuing series, which features outstanding speakers in the fields of natural history and ethnology, has covered subjects from the frozen north and the mountains of Asia to the tropical Nile and the Mediterranean. A total of 15,672 persons attended, and letters as well as personal calls show continued appreciation.

THE BOOK SHOP

During the year an increasing emphasis was placed by the Museum's Book Shop on handicrafts from various areas of the world, and merchandise from about twenty countries was on sale. The Museum booklet *For Pebble Pups, A Collecting Guide for Junior Geologists* (see Annual Report 1955, page 71) continued to be a best-seller, with approximately 25,000 copies sold in the fourteen months ended December 31. The advertising program of the William Wrigley Company featuring *For Pebble Pups* was completed during 1956, and the many letters from educators, parents, and children attest to the value of this co-operative contribution to science education. Book Shop sales for 1956 were \$139,815.17, an increase of more than \$26,000 over 1955. Mail-order sales of books, color transparencies, and other material continued to increase and amounted to about 20 per cent of the total.

JAMES NELSON AND ANNA LOUISE RAYMOND
FOUNDATION FOR PUBLIC SCHOOL AND
CHILDREN'S LECTURES

The educational program of Raymond Foundation for 1956 showed definitely the trend that is evident in most museums in the United States—school groups are using the museums more and more as a part of their regular school-work. The museum has become accepted by school administrators as a classroom for all types of students and for groups of students. The excellence of the Museum's offerings has been widely commended.

Of particular importance and interest is the response of teachers to programs offered by subject and grade-level in the Museum at the time needed. These programs are of various kinds: (1) suggested tours (worked out following the course of study); (2) special school-programs (introduction for groups of approximately 100 students in a Museum meeting-room, followed by individual-student work in a hall or halls closed to other visitors—106 programs with total attendance of 8,803); (3) workshop in rocks and minerals (32 programs with total attendance of 1,379); and (4) special program about Eskimos for fourth-graders (51 programs with total attendance of 1,767).

In addition to programs for school groups, Raymond Foundation prepared programs for Girl Scouts, Camp Fire Girls, Cub Scouts, and YMCA groups. Three Girl Scout programs, "Helps on Nature-Proficiency Badges," were given in February, with a total attendance of 1,413. Expeditions for Brownie Scouts continued with the spring expedition "Bible Plants" (434 participating) and the fall expedition "Dinosaur Land" (1,185 participating). The Camp Fire Girls were offered similar expeditions, with 508 participating in the spring expedition "Bible Plants" and 61 in the fall expedition "Dinosaur Land." "Buffalo Hunt," a special summer-program for young YMCA members, was given to 24 groups with a total of 1,043 attending.

Museum Journeys continued to be offered to individual children and to groups. Four Journeys, each available for two months, were offered during the year: Winter (December-January), Spring (March-April), Summer (July-August), and Fall (October-November). The Winter Journey (No. 4) of 1955-56, "Toys," carried over into 1956 with a total of 135 Journeys completed; the Spring Journey (No. 5), "Bible Plants," totaled 264 completed; the Summer Journey (No. 6), "Postage-Stamp Safari," totaled 74 completed; the Fall Journey (No. 7), "Dinosaur Land," totaled 469 completed; and the Winter Journey (No. 8), "Holiday-Animal Hunt," which



Miss Miriam Wood, who is Chief of the James Nelson and Anna Louise Raymond Foundation, tells children from a public-school class about the mammals of Illinois.

carried over into 1957, totaled 118 completed in 1956. For all but one of these Journeys special exhibits were prepared by the Raymond Foundation staff as starting points for the young travelers.

An exhibit of sketches of Bible plants for Journey No. 5 was prepared by Miss Marie Svoboda. With the sketches, made by Wendell Hall for the series of Museum Stories on Bible plants, were displayed a map of Bible lands and Bibles opened to show certain references to plants. John R. Millar, Deputy Director of the Museum, and Gustav A. Noren, of the Division of Maintenance, assisted greatly with this exhibit. For Journey No. 6 an exhibit of stamps depicting animals of various countries was prepared by Miss Miriam Wood, Chief of Raymond Foundation. Mrs. Maryl André of Raymond Foundation, Curator Harry E. Changnon,

Preparator Henry U. Taylor, and Assistant Henry Horback of the Department of Geology, James R. Shouba and Noren of the Division of Maintenance, and Mr. Millar assisted with the exhibit. The stamps were from the personal collection of the Director of the Museum, Dr. Clifford C. Gregg (see page 77).

The motion-picture programs for children on Saturday mornings in spring and fall and on Thursday mornings in summer were continued, with a slight decrease in attendance in spring, an increase of more than 1,000 in fall, and a decrease of about 2,000 in summer. Total attendance in spring (9 programs) was 5,118, in summer (12 programs, 2 showings on each of the 6 Thursdays) 7,966, and in fall (8 programs) 5,506. At the spring and fall programs our series of Museum Stories were distributed to the children: "Bible Plants" (9 stories by Marie Svoboda) and "Days of the Dinosaurs" (8 stories by Dolla Cox Weaver). Extension-lecture service for the Chicago public schools continued but in greatly reduced numbers because of the increasing demand for programs in the Museum (33 extension lectures were given to a total of 8,805 students).

The year's total attendance for Raymond Foundation of 112,922 (2,106 groups, *see 1956 summary below*) is approximately 11,500 more than that of the year before (1,811 groups, totaling 101,384). Months with record attendance were February, March, October, and November, with October breaking all records for any other month in any year. There were waiting lists for seven out of the twelve months, totaling 174 groups with an approximate total of 9,000 students waiting for possible cancellation. Summary follows:

ACTIVITIES WITHIN THE MUSEUM

For children	Groups	Attendance	Groups	Attendance
Tours in Museum halls.....	1,242	50,223		
Lectures preceding tours....	416	25,385		
Motion-picture programs...	29	18,590		
TOTAL.....			1,687	94,198
For adults				
Tours in Museum halls.....	342	5,521		
Lectures preceding tours....	44	4,398		
TOTAL.....			386	9,919

EXTENSION ACTIVITIES

Chicago Public Schools.....	32	8,705		
Miscellaneous	1	100		
TOTAL.....			33	8,805
TOTAL FOR RAYMOND FOUNDATION ACTIVITIES.....			2,106	112,922



John R. Millar, Deputy Director of the Museum, presents a Museum Traveler Award to Janet Mangold certifying that she has successfully taken four Museum Journeys.

Museum Traveler Awards were presented to the twenty-three boys and girls who successfully completed four Journeys during 1956. Thirteen were presented at one of the Saturday-morning motion-picture programs for children and ten on Members' Night (each Award is signed by the Director of the Museum).

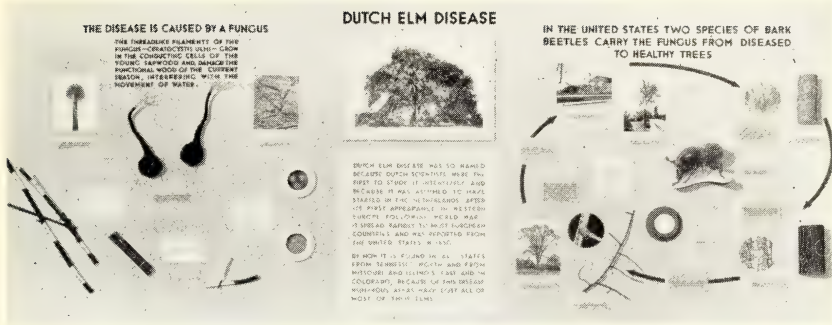
In July and August the Museum again showed the Museum film "Through These Doors" at 3 o'clock daily except Saturdays and Sundays. Visitors still interested in learning more about the Museum but weary of walking through the halls responded in great numbers to the signs: "Are your feet tired? Would you like to sit down? See the Museum in movies!" The film was shown 34 times with a total attendance of 4,067 Museum visitors.

STAFF OF THE MUSEUM

Bryan Patterson, who resigned his curatorship of fossil mammals in June, 1955, to become Alexander Agassiz Professor of Vertebrate Paleontology at Harvard University, was elected Research Associate in the Division of Fossil Vertebrates by the Board of Trustees. Roland W. Force, formerly of the Bernice P. Bishop Museum in Honolulu, joined the staff of this Museum in June as Curator of Oceanic Archaeology and Ethnology immediately following his return from field work in Micronesia under the auspices of the Tri-Institutional Pacific Program. Other appointments during the year were: Miss Eugenia Bernoff, Library; Walter Boyer, Ceramic Restorer, Department of Anthropology; Almon Cooley, Assistant Preparator, Harris Extension; Bruce Erickson, Preparator, Department of Geology; Albert William Forslev, Associate Curator, Division of Mineralogy and Petrology; Miss Marilyn Jaskiewicz, Secretary, Department of Botany; Miss Marion Pahl, Staff Illustrator; and Dr. G. Alan Solem, Assistant, Lower Invertebrates.

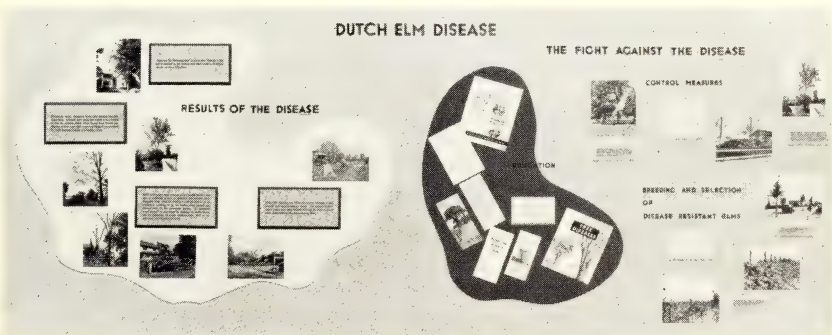
Miss Marion K. Hoffmann, Assistant Auditor, became Acting Auditor upon the resignation of Robert A. Krueger, Auditor; Mrs. M. Eileen Rocourt, in charge of classifying and cataloguing in the Library, was appointed Associate Librarian; Henry Horback, Preparator in the Department of Geology, was made Assistant in Geology; and Mrs. Maryl André was transferred from the Library to Raymond Foundation. Resignations during the year were: Miss Laura Brodie, Assistant, Department of Zoology; Cameron E. Gifford, Preparator, Department of Geology; Mrs. Donna G. Grove, Library; Mrs. Lorraine Kratz, Assistant Registrar; Robert A. Krueger, Auditor; Miss M. Dianne Maurer, Secretary, Department of Botany; Arthur J. Soderling, Assistant Preparator, Harris Extension; and Norman H. Suhr, Associate Curator, Geology.

It is with deep regret that I record the death on April 11 of Mrs. Emily M. Wilcoxson, former Librarian of the Museum who faithfully served the Museum for almost forty-five years until her retirement in 1950. I further record with deep regret the death on June 26 of Miss Margaret M. Cornell, former Chief of James Nelson and Anna Louise Raymond Foundation, who joined the staff in 1926 and retired in 1939; the death on October 20 of Mrs. Thresa Jurick, retired janitress who served the Museum for more than twenty-five years; the death on June 8 of Leon L. Walters, Taxidermist for forty-three years before his retirement in 1954; and the death on December 27 of David Dunsmuir, Captain of the Guard since 1953, who joined the Museum guard force in 1944.



SPECIAL EXHIBITS

During International Museum Week an exhibit illustrating the exchange of publications and specimens between museums of the world was placed in Stanley Field Hall (see page 27). An exhibit on Dutch elm disease was displayed from April through November (see page 51), and through the summer an exhibit commemorating the local emergence of the seventeen-year cicada was installed temporarily in adjacent George M. Pullman Hall (see page 66). Other special exhibits were photographs of mushrooms by Herbert T. Tweedie of Dayton, water-color paintings of birds of Venezuela by Kathleen Deery de Phelps of Caracas, paintings of wildlife by Tom Dolan of Berwyn, Illinois, and small exhibits to serve as starting points for Museum Journeys (see page 31). Again in 1957 there were special exhibits that have become annual events: the Annual Amateur Handcrafted Gem and Jewelry Competitive Exhibition in June, the Chicago International Exhibition of Nature Photography in February, and drawings and paintings by students of the School of the Art Institute of Chicago in May (see also page 75).



VOLUNTEER WORKERS

The Museum thanks its faithful volunteer workers for their help during the year. Some of them, designated as Research Associates and Associates, are included in the List of Staff at the beginning of this Report. Other volunteers are: George Brien, Miss Diane DeVry, Michael Duever, Edward Feinstein, Robert Fizzell, Ira L. Fogel, Dr. Robert L. Hass, Mrs. Judith D. Lownes, Thomas McIntyre, Paul D. Molnar, Joseph A. Pizzo, Philip Porzel, Leon Rainers, Wayne Shadburne, and Miss Carol Smith.

MUSEUM EXPEDITIONS IN 1956

The Museum conducted fourteen expeditions and field trips in 1956. Their work is described in this Report under the headings of the scientific departments. Expeditions and field trips of 1956 and their leaders are:

DEPARTMENT OF ANTHROPOLOGY—*Chicago Region Archaeological Field Trips, 1955-56* (Miss Elaine Bluhm, Assistant in Archaeology); *Great Lakes Area Archaeological Field Trips* (George I. Quimby, Curator of North American Archaeology and Ethnology); *Peru Archaeological Expedition* (Dr. Donald Collier, Curator of South American Archaeology and Ethnology); *Southwest Archaeological Expedition* (Dr. Paul S. Martin, Chief Curator of Anthropology)

DEPARTMENT OF GEOLOGY—*Central America Volcanological Expedition* (Dr. Sharat K. Roy, Chief Curator of Geology); *Eastern States Paleontological Field Trip* (Dr. Robert H. Denison, Curator of Fossil Fishes); *Louisiana Sedimentology Field Trip* (Dr. Rainer Zangerl, Curator of Fossil Reptiles); *Paleobotanical Field Trip to Alabama, Mississippi, and Tennessee* (George Langford, Curator of Fossil Plants); *Wyoming Paleontological Expedition* (William D. Turnbull, Assistant Curator of Fossil Mammals)

DEPARTMENT OF ZOOLOGY—*Borneo Zoological Expedition* (Dr. Robert F. Inger, Curator of Amphibians and Reptiles); *Caribbean Marine Field Work* (Dr. Fritz Haas, Curator of Lower Invertebrates); *Eastern United States Zoological Field Trip* (Henry S. Dybas, Associate Curator of Insects); *Peru Zoological Expedition* (Celestino Kalinowski); *Philippine Zoological Field Work* (D. S. Rabor, Field Associate in the Department of Zoology)

Department of Anthropology

Research and Expeditions

The Southwest Archaeological Expedition spent nine weeks in moving camp-headquarters from Pine Lawn, New Mexico, to Vernon, Arizona. Dr. Paul S. Martin, Chief Curator of Anthropology, was in charge of the expedition staff, assisted by Dr. John B. Rinaldo, Assistant Curator of Archaeology, Charles Lewis, Roland Strassburger, Douglas Keney, George Dunham, and Mrs. Martha Perry. Some demolition of old buildings at the new camp and remodeling were accomplished in this period.

Search for archaeological sites was carried on in a methodical manner. First visited were all ranchers, collectors, and local archaeologists, some of whom had definite leads to sites. Then, by truck and on foot, members of the expedition reached out farther and farther to determine in a broad manner the cultural sequence of the region (750 square miles). Thus more than a hundred sites were located. Detailed notes were compiled on each ruin, including such information as location with reference to roads, land boundaries, and other permanent landmarks. A collection of sherds from each site was made and shipped to the Museum for analysis and study. No digging was done this season because all time was devoted to reconnaissance and research.

The earliest evidences of man found this year occur on the higher ancient beaches of now-extinct lakes. These sites, ancient camps and flint factories, yielded stone tools and remains of old firepits but no pottery. It is believed that these evidences of habitation are fairly old, perhaps 2,000 to 4,000 years or even more. The next-younger sites are pit-house villages, from the surfaces of which pottery fragments and tools of stone were collected. These villages are thought to be about 1,200 to 2,000 years old. The later sites, as revealed solely by pottery fragments, were much larger and more pretentious. Pottery also is more elaborate and there are many more varieties. Some of the villages contain a hundred or more rooms and cover acres.

These discoveries show certainly that the Pine Lawn peoples who have been studied during the past dozen years by the Museum's Southwest Archaeological Expedition *did* move into this area, beginning perhaps about A.D. 700-900. One of the more ornamented pottery types that was picked up is related to types made by the Hopi Indians in historic times (since 1540), and another is clearly



Dr. John B. Rinaldo, Assistant Curator of Archaeology, shows pottery recovered in 1956 by our Southwest Archaeological Expedition to guests on Members' Night.

related to a pottery made by the Zuni Indians, also in historic times. We are now of the opinion that the great flowering of the Hopi and Zuni cultures in the 13th to 15th centuries may have been generated by diffusion from and stimulation by the peoples of the Little Colorado Drainage and that these people were originally, in part, at least, of Mogollon origin. If this be true, we shall have data pertaining to a continuity of culture covering about 8,000 years—or from Cochise times (about 7000 B.C.) down to A.D. 1540, the conquest of the Hopi and Zuni Indians by the Spaniards. This long sequence—one that would compare favorably with the long histories of the Near East, Greece, and Rome—is of particular interest because a mass of data is required for the study of any culture.

Two main threads of interest have motivated the work of our Southwest Archaeological Expedition: (1) an attempt to recognize consistent interrelationship between culture phenomena in order to establish regularities or similarities that might recur in, through, and across cultural boundaries or in historically separate areas and

(2) a concern with the occurrence of facts and events and when these took place—in other words, a historical approach. The primary interest—devising formulae that might have predictive value in suggesting where man is bound—cannot be undertaken without the particularizing, detailed, historical analyses of particular areas or culture types. Thus the work of the Southwest Archaeological Expedition is infinitely more than a search for sites, specimens, or treasures, although each has intrinsic interest.

During the first months of the year Assistant Curator Rinaldo prepared a report on excavations during the summer of 1955 in Foote Canyon Pueblo, a large pueblo-village on the Blue River in extreme eastern Arizona, and supervised preparation of drawings and illustrations for the report. From time to time he did research in archaeology of Southwestern Indians for preparation of exhibits in Hall 7 (Ancient and Modern Indians of the Southwestern United States), which still is incomplete.

Dr. Donald Collier, Curator of South American Archaeology and Ethnology, spent six months in Peru making explorations and excavations in the Casma Valley on the coast two hundred miles north of Lima. He was assisted by Donald E. Thompson, a graduate student at Harvard University. The expedition was made possible by a grant from the National Science Foundation. Before this year's work the Casma Valley has been one of the least-known archaeologically of the coastal valleys. For this reason an attempt was made to study all parts of the valley to determine the number, character, and age of the prehistoric settlements and other ruins. Detailed studies, including mapping, photography, and making surface collections, were carried out at fifty-three sites, and test excavations were made at ten of these. Of particular interest to the expedition were two large towns laid out in rectangular grid-pattern, each covering nearly a square mile. They dated from the Tiahuanaco period, about A.D. 1000. The expedition's collection of ceramics, fragments of textiles, organic materials from refuse deposits (animal bones, shells, and vegetable materials), and wood samples for radiocarbon dating soon will be shipped to the Museum from Peru. After his return to the Museum in August, Curator Collier devoted his time to study of data gathered in Peru and to designing and installing new exhibits in Hall 8 (Ancient and Modern Indians of Mexico and Central America).

M. Kenneth Starr, Curator of Asiatic Archaeology and Ethnology, continued his study of the archaeology and general culture-history of south China during the Chou period (traditionally, 1122-221 B.C.). The emphasis has been on the cultures of the

non-Chinese peoples who predominated in the region at that period rather than on the classical culture of the Chinese, whose culture subsequently spread over the south, destroying or pushing back the non-Chinese cultures indigenous to the region.

Roland W. Force, Curator of Oceanic Archaeology and Ethnology, joined the Museum staff on June 15, 1956, immediately following his return to the United States after eighteen months of ethnological field work in Micronesia. While in the field, Curator Force, then Associate in Ethnology on the staff of Bernice P. Bishop Museum in Honolulu, engaged in research that was part of a broad program under the auspices of the Tri-Institutional Pacific Program (Yale University, University of Hawaii, and Bishop Museum participating). Specific foci of study were the nature of social structure, political change, and leadership in the Palau Islands of the Western Carolines. He has been engaged in the arrangement of field materials for publication since his return from the Pacific. While on his way to the Museum from the Palaus, he inspected Pacific collections in Manila, Hongkong, Taipei, Tokyo, Seattle, and Santa Fe and, in November, in Milwaukee.

Some research on fossil man in Europe and some inquiry into origins of Navaho silversmithing were undertaken by George I. Quimby, Curator of North American Archaeology and Ethnology, in connection with the exhibition program. His major research, however, was on problems of archaeology and environment in the upper Great Lakes area. For data he visited museums and universities in Michigan and Wisconsin and consulted with archaeologists, geologists, botanists, and pollen specialists. Field work was undertaken in Ontario and in the upper peninsula of Michigan. Tentative propositions resulting from Great Lakes studies are: Paleo-Indians making use of fluted points of chipped stone probably lived in the Great Lakes region from Late Cary times (Port Huron glacial advance) until after the Valdres glacial advance. In terms of radiocarbon dates (not universally accepted) this period would have been from about 10,500 B.C. to about 8500 B.C., a period embracing two glacial advances and one interstadial and several different stages in the development of the Great Lakes. The mysterious Old Copper culture flourished sometime in the period between the Lake Algonquin stage and the Lake Nipissing stage, essentially a period of falling water-levels culminating in water-planes 350 feet to 400 feet below modern levels in the upper Great Lakes. In terms of radiocarbon dates, this period lasted from some time before 6000 B.C. to about 2000 B.C.



Crocodile-god design

Cocle style, Panama

During the spring and summer months the archaeological survey of the Chicago area, which was begun two years ago, was continued as part of the work of the Chicago area archaeological project. Seven days were spent in testing the Huber site, much of which work was done by volunteers—members of the Earth Science Club of Northern Illinois and the staff of Chicago Natural History Museum, students from the University of Chicago, and others interested in the prehistory of the area—under the direction of Miss Elaine Bluhm, Assistant in Archaeology. Several sections of the large village-area were tested, and the intensity of occupation in each was determined by the depth of deposit and amount of village debris. The pottery and stone, bone, and shell artifacts were brought to the Museum, where they were washed, classified, and catalogued. More than 5,000 sherds were recovered, most of which may be described as shell-tempered Upper Mississippi type.

Enough fragments of one large jar were found to make possible the restoration of the vessel. The chipped-stone tools include small triangular projectile points, random flake-scrapers, blades, and gravers. Among the ground-stone tools were milling stones, hammerstones, and fragments of celts, or axes. The most unusual artifact recovered from the dig is a small oval limestone-pebble that has on one side an engraving of an animal with an arrow pointed toward it and on the other what may be a crude "stick-man."

The Bukidnon of Mindanao by Dr. Fay-Cooper Cole, Research Associate in Malaysian Ethnology, was published by the Museum (see Annual Report 1954, page 39). Part of the expense of printing the monograph was borne by the Marian and Adolph Lichtstern Fund for Anthropological Research, Department of Anthropology, University of Chicago.

Dr. J. M. Wright, Department of Orthodontics, University of Illinois Medical School, is attempting to establish a method of determining a cephalic index from the lateral head X-ray that can be used in studying the living individual to understand malocclusion better in relation to physical type. The immediate problem is to try to determine a cephalic index by using a lateral head X-ray oriented on a Rickett's head-holder and by using height and length instead of breadth and length as normally used. Dr. Wright used 125 skulls from the Museum's collection, measured the cephalic index of each skull, and took an X-ray. He plans to determine the index from the X-rays and correlate with the known index.

Accessions—Anthropology

Evelt D. Hester, Thomas J. Dee Fellow in Anthropology, gave an additional 134 pieces from his collection of rare fourteenth- to eighteenth-century oriental porcelain and pottery, all of it grave-furniture or ceremonial or heirloom pieces recovered in the Philippines (see Annual Report 1954, page 39). An outstanding gift is a fine example of an early bronze drum from northern Laos in Indochina presented by Oden Meeker, of New York (see Chicago Natural History Museum *Bulletin*, July 1956). Miss Elisabeth Telling, of Guilford, Connecticut, presented 45 significant original drawings of native peoples made by her during the past fifteen years in Indonesia and Central America. Two baskets, presented by Miss Elizabeth M. Goodland of Chicago and collected by the Reverend P. Moiket at Upi,[§] Philippines, are the handicraft of the Tiruray, a pagan group living in Cotabato Province on the island



Abai (council house) in the Palau Islands
(photograph by Roland W. Force)

of Mindanao, and make valuable additions to our very limited collection of Tiruray material. Robert Trier, formerly of Chicago, gave three fire pistons from Kota Bharu, Malaya, one of unusual design with date in Arabic (about 1866) and another of buffalo horn.

A collection of materials from the Eastern Highlands of New Guinea was purchased from the collector, Professor James B. Watson, of the University of Washington. The collection represents an area of New Guinea about which very little is known, and no specimens of the region represented by this collection have ever before been included in the Chicago Natural History Museum catalogue. The feather-work in the collection is noteworthy. Among the 142 items that were collected by Curator Force during his expedition to the Palau Islands for the Tri-Institutional Pacific Program and presented to the Museum are some valuable specimens of pottery (pottery, which is extremely limited in its distribution in Oceania, is rare today because of its replacement by trade goods where pottery was made in aboriginal times). In the collection are two complete pots, a rare ceramic lamp, and an extensive collection of type-sherds from a series of archaeological sites in Palau.

Care of the Collections—Anthropology

Removal of the Melanesian, Polynesian, Micronesian, Formosan, Australian, and Madagascan collections from dead storage and their placement in the Pacific Research Laboratory was completed under the supervision of Chief Curator Martin and Mr. Hester. Hester was seconded by Allen S. Liss, Assistant in Anthropology, and a group that included John Hobgood, assistant, Irving Wortis and William J. Hiebert, Antioch College students, and Ira L. Fogel, Robert Fizzell, and Paul D. Molnar, volunteers. The holdings of the Pacific Research Laboratory were increased by a large number of Oceanic area specimens that were removed from exhibition.

A project to make more available reference and study collections of all North American archaeological materials was started early in the year. A large reference collection of North American Indian basketry was moved in with various tribal ethnological collections and, under the direction of Curator Quimby, archaeological materials from eastern North America were moved to the third floor from the basement storeroom by Phillip H. Lewis and John Hobgood, assistants, and by Museum Fellow James A. Brown, who checked specimens and reorganized the collections by state and county locations.

The collection of ancient Mesopotamian artifacts brought back from Kish by the Field Museum—Oxford University Expeditions (1922–32) has been reduced to order by Nicholas B. Millet, graduate student in Egyptology at the University of Chicago, aided by Miss Grace Alpher of Antioch College, Miss Carol Smith, volunteer, and Hobgood. The registration had been left incomplete and the material had been divided between three storerooms shortly after its arrival in Chicago. Six months of steady work resulted in the consolidation of the collection, the completion of the catalogue cards, and the final registration of all objects. About 2,000 problem-cards were studied and paired off with their objects, and the completed series of cards (in all about 8,000) was arranged in numerical order to serve as a handy catalogue. The objects themselves were sorted by material and type and arranged within these types in numerical order on the shelves so that the storeroom itself serves as a subject-file. It is thus possible for a specimen to be found either by type or by number.

Curator Starr's attention has been largely devoted to organization of the East Asian Library (see page 22) with Dr. Hoshien Tchen of the Museum Library staff. Curator Starr devoted some time to reorganizing and recataloguing our small collection of anthropological material from Burma.

Exhibits—Anthropology

Nine new exhibits were prepared for Hall 8 (Ancient and Modern Indians of Mexico and Central America), completing the section devoted to ethnology of Mexico and Guatemala, four for Hall 7 (Ancient and Modern Indians of the Southwestern United States), and one for Hall C (Stone Age of the Old World). Dioramist Alfred Lee Rowell finished a diorama for Hall 8 of a Maya eighth-century ceremony that was performed to dedicate a newly erected stela with calendrical inscriptions (this diorama is not yet installed) and also began work on a diorama showing an Aztec market.

Hester, assisted by Liss, completed renovation and reinstallation of all Melanesian (Hall A), Australian (Hall A1), and Polynesian and Micronesian (Hall F) exhibits and added a new Indonesian (Hall G) exhibit, a task involving indexing withdrawn artifacts and storing them in the Pacific Research Laboratory. As in renovation in 1955 of the Philippine (Hall A) and Indonesian (Hall G) exhibits, all exhibition cases were cleaned, repainted, and top-lighted. The Melanesian exhibition cases in Hall A were placed in a new floor-plan that eliminates the traditional long-corridor arrangement, a change that gives at nearly every turn a view of the broad fronts of the cases rather than, as formerly, their narrow ends and increases the viewing distance. Four new built-in cases were installed in which are displayed exceptional specimens from Melanesia. In Hall F the traditional floor-plan was kept to allow a long vista of the Maori house at the end of the hall, but the distance between exhibits was doubled and a patio of 150 square feet was cleared immediately in front of the house where were installed two monumental replicas of the gigantic Easter Island stone heads modeled for us by Walter Boyer, Ceramic Restorer. Two new exhibits were installed in Hall F, one of woodcarving from the Austral and Cook islands in Polynesia and the other of weapons from Fiji. All the new exhibits were prepared by Artist Gustaf Dalstrom and Preparator Walter C. Reese. This whole program of renovation and reinstallation could not have been accomplished without the full co-operation of James R. Shouba, Superintendent, and William E. Lake, Chief Engineer, and their respective crews, who made every effort to fulfill their assignments promptly and efficiently.

A new exhibit in Hall E (Africa and Madagascar), the Cameroons King's House, was completed for Members' Night (see page 26). The exhibit is an outgrowth of collaboration with Mrs. Webster Plass and William B. Fagg, both of the British Museum (London), whose admiration for our Cameroons collections and their interest in

our plans for reorganization of our African ethnological exhibits resulted in the decision to construct a full-size representation of the house of an African king to display artifacts in the context of native life. Two auxiliary structures, a drum hut and an ancestor shrine, were set up near the house. As a gift to this Museum, Mrs. Plass, a collector of African art and member of the Department of Ethnography of the British Museum, presented her services as consultant and as artist. The Museum and especially the staff of the Department of Anthropology are deeply indebted to her for her generous assistance in planning and executing the project and, most of all, for her boundless enthusiasm and good will. Mrs. Plass also is author of *The King's Day*, a booklet published by the Museum for the Cameroons King's House exhibit. Assistant Lewis conducted research and planned the exhibit, supervised construction of the house, and acted as preparator, with Preparator Reese and Ceramic Restorer Boyer, in the installation of the Cameroons materials.

Alfred Lee Rowell, Dioramist in the Department of Anthropology, is at work on the figure of a ceremonial dragon that will be used in a Maya diorama for Hall 8.



Department of Botany

Research and Expeditions

In the early part of the year the Curator Emeritus of Botany, Dr. B. E. Dahlgren, continued his field work in Cuba on palms, with the invaluable collaboration of several interested Cubans. As more and more of the savannah country is becoming cleared for cattle raising or rice growing, it is increasingly difficult to bring together the botanical material and observations required for a critical and comprehensive study of the whole genus *Copernicia*. Some rather bulky material left in storage in Cuba in 1955 was brought to the Museum with this year's collections. Flowering spadices, fruit, and seeds maturing only in the latter half of the year have been received from helpful and reliable correspondents in Cuba and Haiti. Seeds for the production of seedlings of hitherto lacking species have been supplied by Curator Emeritus Dahlgren to the University of Chicago greenhouse to provide material for cytological study by Dr. J. M. Beal and to the Chicago Park District greenhouses at Garfield and Marquette parks for cultivation. In the care of the Museum's palm herbarium and in his research on classification of *Copernicia*, the Curator Emeritus has had the competent and effective part-time aid of Dr. Sidney F. Glassman of the University of Illinois (Navy Pier, Chicago).

Paul C. Standley, Curator Emeritus of the Phanerogamic Herbarium, now at Escuela Agrícola Panamericana near Tegucigalpa, Honduras, is resuming work, in collaboration with Paul Allen of the United Fruit Company, on the flora of Honduras, which will be published by the government of Honduras. J. Francis Macbride, Curator of Peruvian Botany, continued his studies of various families in preparation of additional parts of his *Flora of Peru*. In the section containing the families Sapindaceae–Theaceae, published by the Museum before the end of the year, the treatment of the genus *Theobroma*, to which cacao belongs, is by Dr. José Cuatrecasas, former Curator of Colombian Botany.

Dr. Earl E. Sherff, Research Associate in Systematic Botany, identified a large consignment of Hawaiian plants from Dr. Otto Degener and another collection, mostly of Compositae, from the British Museum (Natural History). Dr. Margery C. Carlson, Associate in Botany, completed her monograph of the genus *Russelia* (Scrophulariaceae) and late in December left for another collecting trip in Costa Rica.

Dr. Theodor Just, Chief Curator of Botany, pursued his studies of living and fossil gymnosperms and of modern systems of classification of the plant kingdom. During the year he initiated a program of comparative studies of modern angiosperm pollen, in which work he was aided by Miss Penelope Dunbar, Antioch College student, and by Miss June Kolar and, later, Miss M. Dianne Maurer, assistants. The special project of photographing the entire Sessé and Mociño collection, on loan from the Botanical Garden in Madrid, was completed with the assistance of the Division of Photography.

Dr. Julian A. Steyermark, Curator of the Phanerogamic Herbarium, spent considerable time in typing labels and sorting specimens of his 1953 Venezuelan collections from Chimantá-tepui and completed study of the Compositae of that mountain from his 1953 and 1955 collections. This family is well represented on this mountain, two new genera and numerous new endemic species having been found as a result of the two expeditions to Chimantá-tepui. Various specialists are at work on the collections made during the two expeditions, and already many new species of Bromeliaceae and Gramineae have been found. A report will be published by New York Botanical Garden, with Dr. Bassett Maguire, Dr. John J. Wurdack, and Steyermark as co-authors. In addition to studying his Venezuelan collections, Steyermark devoted his time to determinations of miscellaneous collections from various parts of the world and directed work on the illustrations for forthcoming parts of *Flora of Guatemala* (Standley and Steyermark). The fourth number of *Contributions to the Flora of Venezuela* (Steyermark and collaborators) is in press.

Dr. Francis Drouet, Curator of the Cryptogamic Herbarium, did research on the classification of microscopic algae in collaboration with William A. Daily, of Butler University. Dr. Hanford Tiffany and Donald Richards, Research Associates, continued their studies of Oedogoniaceae and bryophytes respectively. Dr. Gregorio T. Velasquez, of the University of the Philippines at Quezon City, Luis R. Almodóvar, of San Germán, Puerto Rico, Mrs. Fay K. Daily, of Butler University, and Edwin T. White, of the University of Illinois Research and Educational Hospital, worked on various problems of algal classification and distribution in the cryptogamic herbarium of the Museum.

Dr. John W. Thieret, Curator of Economic Botany, continued his studies of the gross morphology of seeds of agricultural Leguminosae and virtually completed his review of cycads as economic plants. He devoted considerable time in the field to collection and

observation of grasses in connection with a project on the grasses of Illinois undertaken by him and Dr. Robert A. Evers of the Illinois Natural History Survey at Urbana. Research, planning, and correspondence related to the exhibition program occupied a large portion of his time.

Miss Edith M. Vincent, Research Librarian, spent a great amount of time in collating for binding all foreign botanical journals. In addition to her regular duties she aided many correspondents by finding and sending to them descriptions of and information about exotic plants and their uses.

Accessions—Botany

The largest gifts to the phanerogamic herbarium this year consisted of 2,534 specimens from the United States collected by Holly Reed Bennett of Chicago and 594 specimens from Missouri collected by Ernest J. Palmer of Webb City, Missouri. Major collections of plants acquired through exchange were received from New York Botanical Garden (1,160), University of Michigan (1,073), Herbário Barbosa Rodrigues in Brazil (718), and the British Museum (Natural History) in London (481). Notable purchases were acquired of plants from South Africa and Australia. Some important accessions in the cryptogamic herbarium were 933 specimens of cryptogams received in exchange from the Herbarium of the University of California at Berkeley, 100 mosses purchased with funds of the Donald Richards Fund from G. O. K. Sainsbury of Gavelock North, New Zealand, and 96 mosses received in exchange from the Botanical Museum in Copenhagen. Additions to the wood collection totaled 185 wood specimens received through gifts and exchange. The most notable accessions were 107 woods of the Netherlands, Surinam, and Indonesia from the Institute of Forestry, Wageningen, Netherlands, and 20 woods of Pakistan from the Ministry of Agriculture, Karachi. The seed collection increased considerably in size and usefulness through the incorporation of 1,362 samples during the year. Chief among these were 772 seed samples from Iowa State College and 214 samples from the National Botanic Gardens of South Africa. Outstanding among the several accessions in the economic collections were samples of spices presented by American Spice Trade Association of Chicago and by S. B. Penick and Company of New York City for use in the projected spice-exhibit. Among donors of photographs were the Department of Tourists and Publicity of New Zealand and the United States Department of Agriculture.

Care of the Collections—Botany

During the year 4,980 plants were mounted and added to the phanerogamic herbarium. Mounting and poisoning was done by Miss Olive Doig, Mrs. Jennie Pletinckx, and Nils Siegbahn, assisted by Robert Yule and, for part of the year, by Miss Margaret Lestina and Miss Catherine Sanford, student assistants. Mrs. Effie M. Schugman and Miss Alice Middleton mounted 9,587 specimens of cryptograms and prepared them for filing in the general collection. The processing of the identified portion of the Cuatrecasas Collection of Colombian woods was completed by Mrs. Ann Bigelow. During the year a total of 566 wood specimens was sent out in exchange. A necessary reorganization of the rapidly expanding seed collection was accomplished by Edward Rosenbaum and Peter Ogle, Antioch College students. Work on the restoration of the type-photograph collection was continued by Assistant J. S. Daston. Mrs. Lenore B. Warner, who continued cataloguing and filing negatives, positives, and prints of type photographs, handled all the orders for prints that were sold or sent in exchange to individuals or to other scientific institutions.

Exhibits—Botany

The major alterations currently undertaken in Charles F. Mills-paugh Hall (North American Trees, Hall 26) mark the beginning of the last phase of the complete revision and rearrangement of the exhibits of North American woods. Most of the remaining leafy branches needed to complete the three-dimensional models supplementing each wood exhibit are on hand awaiting preparation. One important innovation consists of improved built-in wall cases by which the former window-transparencies will be more attractively displayed with constant illumination free from the damaging and fading effects of direct sunlight. Because individual case-lighting will soon be introduced in Hall 26, all cases must be completely reinstalled, a slow and painstaking process. During the year fourteen exhibits were reinstalled. This work is being carried on by Curator of Exhibits Emil Sella and Preparator Walter Huebner. Nine new model branches were also added. Of these the branches of rock elm (*Ulmus Thomasi*), red mulberry (*Morus rubra*), and red alder (*Alnus rubra*) were prepared by Technician Frank Boryca and the honey locust (*Gleditsia triacanthos*) by Artist-Preparator Samuel H. Grove, Jr. The branches of western hemlock (*Tsuga*

heterophylla), Douglas fir (*Pseudotsuga taxifolia*), Idaho white pine (*Pinus monticola*), Sitka spruce (*Picea sitchensis*), and Monterey cypress (*Cupressus macrocarpa*) are of original material restored for exhibit by Curator Sella. During the year Curator Thieret obtained fresh material of the following for use as bases for reproductions: nutmeg and mace, allspice, varieties of *Capsicum* peppers, guavas, añus (*Tropaeolum tuberosum*), arracachas (*Arracacia xanthorrhiza*), ullucus (*Ullucus tuberosus*), and ocas (*Oxalis tuberosa*). After reinstallation the special exhibit on Dutch elm disease prepared by Curator Thieret and Artist-Preparator Grove for display in Stanley Field Hall (see page 35) will be placed on permanent exhibition in Hall 26. A mural of the giant bromeliad *Puya raimondii*, the work of E. John Pfiffner, Staff Artist, which was installed in Martin A. and Carrie Ryerson Hall (Hall 29, Plant Life), shows this little-known plant in its characteristic home high in the Bolivian Andes.

Emil Sella, Curator of Exhibits in Botany, shows a branch of ponderosa pine that he collected in Oregon and restored for installation in Charles F. Millspaugh Hall.



Department of Geology

Research and Expeditions

As in the past two and one-half years, the Mecca project occupied the attention of Dr. Rainer Zangerl, Curator of Fossil Reptiles, and Dr. Eugene S. Richardson, Jr., Curator of Fossil Invertebrates. The first or data-gathering phase of the Mecca project, which is a detailed investigation of the fossil content of a Coal Age shale occurring near Mecca, Indiana (see Annual Report 1955, page 50), was completed in November of this year. The end of this phase, which is but a reminder of the vast amount of work yet to be done, was celebrated at a ceremony in which the Director of the Museum, Dr. Clifford C. Gregg, was invited to split the last remaining slab of shale. The next phase of the project has already begun: Curator Zangerl is making a systematic study of the vertebrates and Curator Richardson a similar study of the invertebrates. The present study also involves X-raying and trimming the specimens and comparing and grouping them. Concurrently Miss Cynthia Belton, Antioch College student, is completing the transcriptions of charts containing distribution data of the fossil content of the shale. Other Antioch College students who have aided in this research during the year are Miss Sally Higginbotham, Miss Jane Black, and Miss Barbara Best.

The environment in which the black shales at Mecca, Indiana, were deposited is characterized by its notable distance from the open waters of the Pennsylvanian sea. Similar environments exist at the present time along the Gulf Coast of North America, but they have never been adequately studied. First-hand observations of localities where black mud is now being deposited in the inland waters of the Mississippi delta were necessary for the understanding of a number of aspects of the environmental conditions of Mecca. Accordingly, Curator Zangerl and Curator Richardson spent the month of July examining bayous, swamps, marshes, and lakes in the general vicinity of New Orleans, Louisiana. The facilities of the Department of Zoology of Tulane University of Louisiana were generously placed at their disposal by Dr. Fred R. Cagle. He and other members of his staff guided Zangerl and Richardson to areas of particular significance and liberally shared with them their detailed knowledge of the region. Dr. Richard J. Russell, Dean of the Graduate School of Louisiana State University in Baton Rouge, and Edward Orton, of the Institute of Coastal Plain Studies at that

university, most helpfully suggested an inspection of the fascinating floating-marsh environment fringing Lake Hatch south of Houma, Louisiana, and Mr. Orton safely conducted the party across this treacherous *flotant*. While working at Tulane University Curator Zangerl with the help of Curator Richardson studied the shield variations in a large portion of the splendid series of turtles of the Gulf Coast states collected by Dr. Cagle and his associates.

In pursuance of their interest in black shales, Curator Zangerl and Curator Richardson investigated a deposit of this type in a Mississippian sequence of limestones near Oolitic, Indiana. The locality and occurrence of the shale were called to their attention by Dr. Harold R. Wanless, of the University of Illinois. On their return journey to the Museum they stopped at Urbana and discussed the subject at length with him. Curator Richardson also devoted some time to further his study of Coal Age fossil-insects and made several excursions to the Northern Illinois Coal Company's strip mines in the vicinity of Braidwood and Coal City, Illinois. On one of these trips he discovered a locality that had apparently escaped the attention of the numerous avid collectors of these fossils and found there several rare fossils, including a complete cockroach, an insect wing, a spiderlike arachnid, and an eurypterid.

William D. Turnbull, Assistant Curator of Fossil Mammals, revised and expanded his manuscript on a Late Cretaceous marsupial from the Lance formation of Wyoming and continued his studies of the mammalian masticatory apparatus. He also spent some time in planning the paleontological expedition to the Washakie Basin of southwestern Wyoming, on which he was accompanied by Orville L. Gilpin, Chief Preparator of Fossils. They were in the field for two months, during which they made a representative collection from two levels, the Lower and Upper Washakie. Late in the fall, Turnbull and Preparator Bruce Erickson investigated the remains of well-preserved but somewhat incomplete skeletal elements of a mastodon found in a drained peat-bog in northern Indiana. Search for the missing elements was without success.

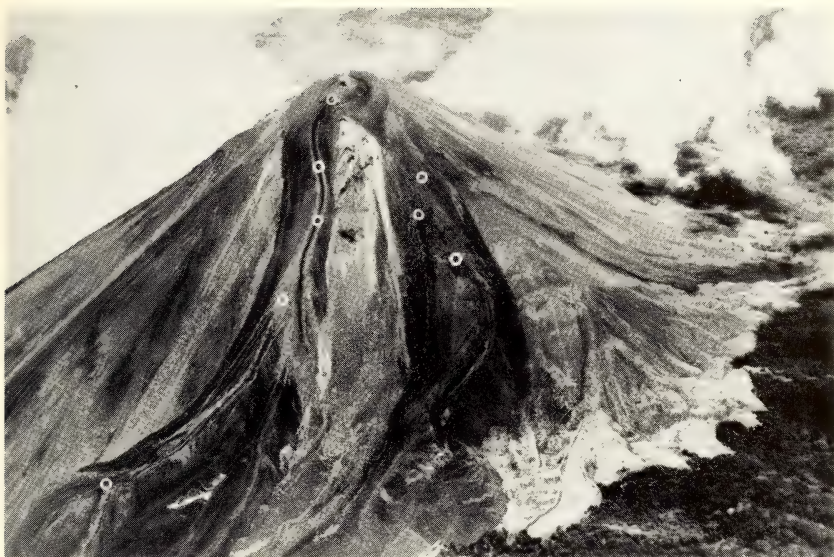
Dr. Robert H. Denison, Curator of Fossil Fishes, continued his studies of the Devonian armored fishes known as arthrodirees. This work, though based primarily on our collections from Utah, has included a review of all known members of this group, particularly the earlier ones. The Utah specimens have been prepared by the use of acetic acid, a slow but in this case a very satisfactory method of removing the limestone matrix. In June he visited the long-abandoned Rockport quarry in the Middle Devonian rocks near Alpena, Michigan, where he collected a number of arthrodirees.



That damages by eruptions are soon repaired is shown in two photographs of the volcano Izalco in El Salvador, Central America, taken on a Museum expedition.

George Langford, Curator of Fossil Plants, made routine identifications of miscellaneous collections from the Pennsylvanian Cretaceous and Eocene and added a number of new species to the illustrated nontechnical manuscript that he has been preparing. He discovered these new species in the Pennsylvanian collections he has himself made and in those donated by Dr. and Mrs. R. H. Whitfield, Associates in the Division of Fossil Plants. Curator Langford, accompanied by Chief Preparator Gilpin, spent two weeks in the field and made a fine collection of fossil flora from the Mesozoic and Cenozoic of Tennessee, Mississippi, and Alabama.

A long-felt need in routine and research work in mineralogy, crystallography, and meteoritics has been met during the year by installation of a General Electric XRD-5/F diffraction unit with facilities for film, direct-measurement diffractometer, and direct-measurement spectrographic techniques. The laboratory housing the equipment has been named the William J. and Joan A. Chalmers Mineralogical Laboratory in memory of Mr. and Mrs. Chalmers and in recognition of their interest in minerals and their generous support of the promotion and growth of the mineral collections, especially the crystal collections, of the Museum. Albert William



The white circles represent points from which lava was seen to extrude (these photographs of Izalco were taken by Dr. Sharat K. Roy, Chief Curator of Geology).

Forslev, recently appointed Associate Curator of Mineralogy and Petrology, is now engaged in testing the equipment. He is also familiarizing himself with our mineral and rock collections preparatory to his participation in the exhibition work now in progress in the new Hall of Meteorites and Minerals (Hall 35). His research at present concerns the stability of minerals to weathering.

Dr. Sharat K. Roy, Chief Curator of Geology, devoted part of his time to duties connected with the installation of meteorites in Hall 35. In his revisionary work on five papers, three of them dealing with volcanoes and volcanism and two with meteorites, he was greatly aided by Departmental Artist Maidi Wiebe, who translated a series of German articles into English. The new data added to the volcano papers were secured while Chief Curator Roy was engaged in field work in Mexico, Guatemala, and El Salvador during August, September, and October. The preparation of an English translation of Karl Sapper's *Los Volcanoes de la America Central* in collaboration with Dr. Ortrud Dieterichs of Instituto Tropical at San Salvador has been completed, and Dr. Roy is now going over the translation to add new data and recent photographs and to delete out-of-date materials. The compilation of a catalogue

of the Museum's collection of meteorites progressed most satisfactorily. Every specimen in the collection was weighed and all pertinent data, including important references, were checked and rechecked. This tedious but essential task was accomplished with creditable thoroughness by Henry Horback, Assistant in Geology.

While conducting field work in Central America, Chief Curator Roy made an important observation of volcanism at Volcan Izalco in El Salvador. Last year, on February 28, Izalco had the most violent eruption in its history, during which it literally "blew its top" and split its northeast flank, pouring forth a vast flow of lava, ashes, and cinders. This year, in September, Dr. Roy found the volcano appearing as though nothing had happened—it had regained its original shape and height by pouring ashes and cinders over the damaged area. Dr. Roy believes that Izalco's action typifies that of all other volcanoes of its kind—that damages caused by eruptions are soon repaired (see illustrations).

Accessions—Geology

A large and important collection of Lower Devonian fishes was presented by Dr. J. Ernest Carman, Professor Emeritus of Geology at Ohio State University. This material, which was collected more than thirty years ago in a quarry in northwestern Ohio, includes numerous specimens of the ostracoderm *Pteraspis*, known elsewhere in North America only from Nova Scotia, and other primitive ostracoderm not yet determined as to genus. Our collection of the rare Pennsylvanian fishes from the Mazon Creek area of Illinois was augmented by several sharks, coelacanths, and palaeoniscoids from the Walker Museum Collection of the University of Chicago (accessioned 1947) and by an exceptionally well-preserved specimen of *Elonichthys* donated by Dr. and Mrs. Whitfield, Associates.

A notable addition to the fossil-mammal collections was a set of casts of the famed South African Australopithecine materials. The casts were made at the Museum from the original specimens brought by Dr. J. T. Robinson, of the Transvaal Museum, Pretoria, to the Chicago meetings of the American Association of Physical Anthropologists. A fine lot of fossil-mammal material (microfauna) from west Australia was donated by Dr. Ernest Lundelius, of California Institute of Technology, supplemented by a smaller but valuable collection (macrofauna) from east Australia donated by Wendell B. Swanson, of Chicago. Both of these collections are from the late and post Pleistocene epoch.

Of particular interest among the newly acquired fossil invertebrates is a fine specimen of a winged insect from the Lower Pennsylvanian rocks of Greene County, Indiana, presented by Dr. James E. Canright of Indiana University. The insect, a member of the extinct order Palaeodictyoptera, is preserved with its four wings spread out, covering a span of four and one-half inches. It was collected from a geological level beneath the fossil-bearing beds of the Coal City area and ranks among the oldest as yet discovered. Another significant Coal Age fossil added to the collection this year is a small trilobite tail collected in the strip-mines near Coal City by Miss Wiebe, Departmental Artist. Although it is preserved in a piece of shale rather than in a concretion, as are most of the known fossils from that area, it is probably a member of the same fauna and is the first trilobite yet found there.

The most valuable addition to the Gem Collection for the year was a beautiful necklace of ninety-five matched Oriental pearls of exceptionally fine quality, weighing 260.96 grains, personally presented to the Museum by Albert L. Arenberg, of Highland Park, Illinois, with the wish that it be recorded as "Gift of Claire and Albert Arenberg" (see pages 25 and 103).

Care of the Collections—Geology

Our study-specimens are used by our own Museum personnel, visiting scientists, and students, and, as a result of much handling, there is always unintentional breakage. Our policy is to keep all damaged specimens repaired and restored to their original appearance as far as practicable. Throughout the year the Hall of Meteorites and Minerals (Hall 35) was closed to the public and exhibits were dismantled. Approximately seven thousand specimens of minerals and all the meteorites were removed and integrated into their respective reserve and study collections. The enormous task of rearrangement of the two collections took Harry E. Changnon, Curator of Exhibits, Henry U. Taylor, Preparator, and Assistant Horback several months to complete. It is gratifying to report that this effort has resulted in a complete inventory of the two collections. David Techter, Assistant in the Division of Fossil Vertebrates, catalogued the remainder of the Harvey Collection of invertebrate fossils and integrated and partly catalogued the Paleozoic fish-specimens from the University of Chicago. The fossil turtles and the carnivores from the Oligocene also received his attention. Late in the year portions of the Northwestern University Bebb Collection

were incorporated into the fossil-mammal collections. Curator Langford spent considerable time in attending to fossil plants. He trimmed and hardened friable matrix of numerous specimens with dextrin solution. He also made excellent progress in arranging the collections for convenience and accessibility, which involved making a separate record of the cases and drawers and their contents.

Exhibits—Geology

On Tuesday evening, March 27, members of the Board of Trustees formally presented to the Museum a spectacular exhibit that is a new landmark in Stanley Field Hall, outrivalling the African elephants—skeletons of two dinosaurs, a monster predator (*Gorgosaurus*) standing over his prey (*Lambeosaurus*). The occasion of presentation, appropriately named Dinosaur Night, was attended by a large number of Museum Members and friends of the Museum and concluded with a lecture on dinosaurs by the internationally known authority Dr. Edwin H. Colbert, of the American Museum of Natural History. The exhibit, which was under preparation for nearly two years, is essentially the work of Chief Preparator Gilpin, who was aided by Preparators Stanley Kuczek and Cameron E. Gifford and Assistant Curator Turnbull. Advice was given by Curator Zangerl, who also prepared a booklet for the occasion describing the exhibit. An added attraction, a miniature model of the dinosaurs designed to show their original form and possible skin-color, was ably sculptured by Miss Wiebe, Departmental Artist (see Dinosaur Night at the Museum, page 24).

Although the dismantling of the Hall of Meteorites and Minerals (Hall 35) consumed much time (see page 57), every effort was made to continue the exhibition program. During the year six exhibits were completed for the new hall, three on meteorites, representing (1) the fall of a meteorite, (2) hypothetical origin of meteorites, and (3) meteorite showers and forms of meteorites, and three on minerals of the quartz family showing crystalline and cryptocrystalline quartz, opal, and silicified wood. These are essentially introductory exhibits, and preparations for systematic exhibits are under way. To aid the Raymond Foundation lecture-program a new exhibit providing information about the causes and effects of earthquakes was added to the Hall of Physical Geology (Hall 34). As in past years, the exhibition program was carried out in harmonious co-operation by Curator Changnon, Assistant Horback, and Preparator Taylor. The paintings in the exhibits are the work of Miss Wiebe.

Department of Zoology

Research and Expeditions

Field work brought in new material from widely scattered localities, and many groups of animals were represented. Dr. Robert F. Inger, Curator of Amphibians and Reptiles, who did field work in Borneo in 1950, returned there to spend part of the year collecting fish, frogs, reptiles, and amphibians and making ecological studies and tape-recordings of frog voices. In the Philippines Field Associate D. S. Rabor, of Silliman University, Dumaguete, Negros, carried out an extremely profitable expedition for birds to Mount Malindang, Zamboanga Peninsula, Mindanao, where the birds are as different from other birds of Mindanao as if this mountain were another island. Only one other collection, in the early part of the century, was ever made on this mountain and, in addition to containing the endemics discovered then, this new collection contains five new subspecies. Field Associate Harry Hoogstraal continued to work in Africa and sent us mammals, birds, reptiles, and amphibians from Egypt, Kenya, and Tanganyika. In 1912 the late Dr. Wilfred H. Osgood, formerly Chief Curator of Zoology, began a survey of Peruvian mammals, and in recent years Celestino Kalinowski, of Cuzco, has been completing the necessary field work, which this year took him into the northeastern corner of the country.

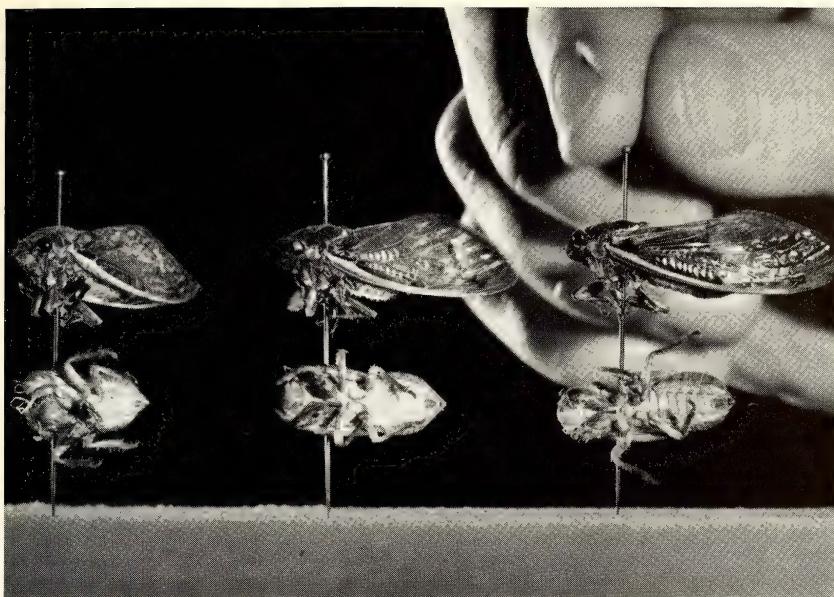
A revision of the phyllotine rodents, one of the most common and most taxonomically confused groups of South American mice, was completed by Philip Hershkovitz, Curator of Mammals. The evolution of the New World cricetine rodents was traced and, by utilizing ideas of annual crop variation and habitat-niche variation affecting the physical form of the animals, order was brought out of the mass of names and ideas about this important group. At the end of the year he was awarded a grant by the National Science Foundation for completion of his checklist of the recent land-mammals of South America. Associate Luis de la Torre's studies of neotropical bats resulted in three short papers.

A faunal report on a collection of birds from western Panama was completed by Emmet R. Blake, Curator of Birds, who then began work on a study of the American members of the crow family to be published by Harvard University as a section of Peters' *Check-list of Birds of the World*. Assistant Curator Melvin A. Traylor, Jr., completed for printing a study of a collection of birds from northeastern Peru and has since been occupied with the

Koelz Collection of birds from southern Asia. Systematic studies by Austin L. Rand, Chief Curator of Zoology, of Philippine and African birds resulted in descriptions of seven new races from the Philippines and, surprisingly, two more new species found in the collections made in 1954 by the Conover Angola Expedition. His studies of the shrike family for Peters' *Check-list* is nearing completion, and a short paper on the status of the migrant shrike of southern Florida was submitted for publication. The monumental *Days with Birds* by V. G. L. van Someren was edited by Chief Curator Rand and published by the Museum, and a popular book by him, *American Water and Game Birds*, was published by E. P. Dutton and Company. Mrs. Ellen T. Smith, Associate, assisted in work on various collections of Philippine birds.

In the Division of Amphibians and Reptiles, Curator Inger, in collaboration with Dr. Bernard Greenberg, of Roosevelt University, completed a study of the reproductive cycle of certain African frogs. Assistant Hymen Marx prepared a paper on Egyptian snakes of the genus *Psammophis* and a key to the reptiles of Egypt. The Curator Emeritus of Zoology, Dr. Karl P. Schmidt, completed a study of Philippine and New Guinea crocodilians, of Trinidad coral snakes, and of Peruvian lizards of the genus *Dicrodon* and, in collaboration with Stanley Rand, a manuscript on snakes of the genus *Ninia*. He also visited museums in London, Paris, and Brussels to examine type-specimens in connection with the report on Congo amphibians to which he and Inger have contributed.

Loren P. Woods, Curator of Fishes, spent two months examining collections of various museums in California in order to complete a revisionary work on the pomacentrid fish of American waters of the Atlantic and Pacific. Study of the marine fishes of the Gulf of Mexico and the Atlantic and Pacific coasts of Central America were continued throughout the year. Curator Woods and Curator Inger completed their project on the cave, spring, and swamp fishes of the Family Amblyopsidae of central and eastern United States. Miss Pearl Sonoda, Assistant, identified small collections of incoming specimens. Mrs. Marion Grey, Associate, completed a manuscript based on her studies of deep-sea fishes collected by the research vessel M/V *Oregon* and began study of the genus *Anoplogaster* of the Dana Collection and a survey of deep-sea fauna found below a depth of 900 meters. Dr. Edward M. Nelson, Associate, made anatomical studies of the piranha fishes of tropical America. Several local field trips were taken to further a handbook of fishes of the Chicago region. Russell Carlson, summer assistant, prepared keys and illustrations for the handbook.



These seventeen-year cicadas, mounted on pins with the shed skin on the same pin below them, are being prepared for the Museum's insect collection (see page 86).

Rupert L. Wenzel, Curator of Insects, resumed work on a monograph of the genus *Margarinotus*, a group of about a hundred species of histerid beetles that occurs in Europe, Asia, and North America. Associate Curator Henry S. Dybas continued his studies of the taxonomy of the minute fungus-spore beetles of the family Ptiliidae and prepared a short paper describing a new genus of these beetles from Oregon. In co-operation with D. Dwight Davis, Curator of Vertebrate Anatomy, he carried out field studies on the periodical cicada, whose local emergence attracted so much public attention in June and July of this year. Dybas made a one-week trip to the Laurentian Mountains with a group of entomologists from the Tenth International Congress of Entomology that was held in Montreal in August. He collected Berlese samples of the Canadian Life Zone and brought them back to the Museum for processing. Miss Lillian A. Ross, Associate, continued her study of spiders. Dr. Fritz Haas, Curator of Lower Invertebrates, went to Bimini in the Bahamas for three weeks to continue his studies of the fauna of coral reefs and coral islands. His research in the Museum was on mollusks of Dutch Guiana and the Lesser Antilles.

In his studies of the evolution of the carnivores Curator Davis, of the Division of Vertebrate Anatomy, concentrated on the structure and mechanics of the jaw. The Borneo animals collected by Curator Inger (see page 59) made revisions possible in the report of Curator Davis on the mammals of North Borneo. The program of research on placentation and fetal membranes of primitive mammals being conducted by Dr. Waldemar Meister, Associate, and Davis was continued, and material from a second species of tree-shrew has been sectioned and is being studied. Dr. R. M. Strong, Research Associate, continued his studies of the anatomy of birds.

Dr. Charles A. Reed, of the University of Illinois, began a program of research on the origin of domestic mammals. His work is based on extensive materials collected in Iraq by the Iraq-Jarmo Archaeological Expedition (1954-55) of the Oriental Institute and the University of Chicago (see Annual Report 1955, page 63).

Accessions—Zoology

The largest single accession this year in the Division of Mammals was a lot of nearly 800 specimens representing about 70 species from Kenya and Tanganyika contributed by Field Associate Hoogstraal. Collecting done by him and other entomologists has effected a quiet revolution in the objectives of securing specimens of mammals in the field. Until recently, most mammal collectors preserved only parts or the entire body of the animal and ignored its parasites. Understandably, mammalian parasitologists could not remain passive in the face of a situation that deprived them of their only source of material and information and so they themselves entered wholeheartedly into the arduous game of collecting mammals and studying their habits and habitats, all for the purpose of increasing knowledge of parasites. Hoogstraal, a well-known parasitologist and entomologist, is not only a leader in the field of mammal-host collectors, but his mammal collections are of outstanding excellence. All his host specimens are contributed to the Museum so that our specialists may determine the names of the animals harboring the parasites that interest him. As a result, the Museum has received more mammals from expeditions conducted by Hoogstraal than from any other single source. The specimens, which number well over 11,000, are from such diverse lands as the Philippines, New Guinea, Turkey, Yemen, Madagascar, the Sudan, Egypt, and Africa. The most notable accession of birds for the year was the Koelz Collection of 20,591 birds of Iran, Afghanistan, India, and Nepal



Melvin A. Traylor, Jr., Assistant Curator of Birds, unpacks the Koelz Collection of 20,591 birds of Asia, the arrival of which was an outstanding event of the year.

(purchase). Representing work of more than twenty years by Walter N. Koelz, of Waterloo, Michigan, these collections fill many of the major gaps in the Museum's collections from southern Asia and permit the staff of the Division of Birds to work out many taxonomic problems that could not be approached before because adequate material was lacking. Other accessions were 590 birds of western Colombia (purchase) collected by M. A. Carriker, Jr., and 9 birds of Formosa collected and presented by an enthusiastic young scientist, Master Fraser Walsh, aged nine. The exchange program of the Division of Amphibians and Reptiles with other institutions resulted in much important material, including that from the

British Museum (Natural History) in London, the Institut Royal des Sciences Naturelles in Brussels, and the Muséum National d'Histoire Naturelle in Paris. Field Associate Hoogstraal gave a collection of 400 reptiles and amphibians from the Near East.

The United States Fish and Wildlife Service in Pascagoula, Mississippi, continued to send interesting and valuable collections of fishes. Seven paratypes of *Gambusia heterochir* were given by the University of Texas through kindness of Dr. Clark Hubbs. The more important gifts of insects are a general collection of beetles, containing 12,285 specimens, from Dr. Orlando Park, of Evanston, Illinois; types of 8 new species of cave carabid-beetles from Dr. Carl Krekeler, of Valparaiso, Indiana; 466 beetles of western United States and Mexico from Dr. Richard B. Selander, of Urbana, Illinois; 503 insects of Tennessee from Bernard Benesh, of Burrville, Tennessee; and 1,036 insects and a reprint library of 2,300 papers on the true bugs from William J. Gerhard, Curator Emeritus of Insects. Among notable accessions of lower invertebrates are a collection of more than 500 lots of Canadian inland mollusks given by the Museum of Zoology of the University of Michigan through kindness of Dr. Henry van der Schalie; a large collection of about 8,000 lots of world-wide shells gathered by the late Edwin E. Hand of Chicago and presented by his daughter Miss LaVerne Hand, now of Grants Pass, Oregon; and a specimen of the gigantic deep-sea sowbug so rarely seen in museum collections, which was received in exchange from the United States National Museum.

Care of the Collections—Zoology

Availability is one of the keynotes in our filing of specimens. In the systematic arrangement that we use, the ideal is to be able to put our hands on any specimen with as little trouble as possible. But as the collections grow, certain sections become crowded and, because of size of specimens or because of their numbers, some are housed temporarily out of place. Continual adjustments are made.

With volunteer help of George Brien, Tom McIntyre, and Wayne Shadburne the marsupials were moved and consolidated to make more space available for African primates. Tanner Dominick Villa, in addition to routine preparation of skins, renovated a number of old stored-specimens, including some rare insectivores, and made them available for use. The major redistribution of the bird collection, begun last year, was continued with the help of two summer assistants, Albert Gilbert and Ralph Eiseman, and the Conover

Game-bird Collection is now completely rearranged. Every bottle of reptile and amphibian specimens was examined during the year by Assistant Marx to make sure that the liquid preservative was adequate, and similar work was done for the fish collection by Assistant Pearl Sonoda. Dr. G. Alan Solem, Assistant in the Division of Lower Invertebrates, rechecked about 1,300 lots of landshells of the Ferriss Collection.

Curator Emeritus Gerhard completed the work of transferring his Hemiptera-Homoptera collection into cabinets and began the transfer and organization of the Hymenoptera collections (ants, bees, wasps). Assistant August Ziemer completed pinning the insects collected by the Philippine Zoological Expedition (1946-47), but more than half of the specimens still must be labeled before the insects will be available for study. A little less than half of Ziemer's time was devoted to work on the collection of larger North American moths. Research Associate Alex K. Wyatt spent six weeks in collating and transferring Microlepidoptera into unit trays, and Research Associate Charles H. Seevers transferred into unit trays several thousand species of staphylinid beetles, including about 2,000 species acquired in exchange with the British Museum (Natural History) during last year. Harry Nelson, Assistant Professor of Biology at Roosevelt University, was employed in the Division of Insects during the summer months to begin the transfer into trays of the recently acquired Knirsch-Brancsik collection of beetles (see Annual Report 1955, page 64).

Miss Phyllis Wade, Assistant in the Division of Vertebrate Anatomy, carried on routine care of the collection and made illustrations for Curator Davis. Miss Sophie Andris, Osteologist, prepared for study 1,380 skulls for the Division of Mammals and 150 skeletons for the Division of Vertebrate Anatomy. Miss Laura Brodie, Assistant in the Department of Zoology, continued in charge of zoology photograph-files, which included care and filing of material and filling requests for animal pictures.

Great assistance in routine tasks was given during the year by our Antioch College students. With the help of Miss Janet Curl, Miss Joan Davis, and Miss Anne Terborgh many thousands of insect specimens were labeled, more than ten thousand unit-trays were lined with cork and prepared for use, several thousand tray-labels were typed, loan records and files were kept up to date, and recently acquired books were shelved. In labeling specimens of lower invertebrates and writing their catalogue numbers on them Miss Anita Pope, Miss Carolyn Reusch, and Miss Terborgh helped, and Miss Reusch also aided in checking the fish collections.

Exhibits—Zoology

"Synopsis of the Animal Kingdom," an exhibit designed by Chief Curator Rand to show the variety in the major classification of animals, has taken much of Artist Joseph B. Krstolich's time. Most of the divisions are represented, but the preponderance of invertebrates has necessitated the special attention of Curator Haas and Assistant Solem, while Staff Artist E. John Pfflner and Miss Marion Pahl, Staff Illustrator, have co-operated. The arctic ptarmigan's moult from brown to white is dramatized in an exhibit where transparent mirrors and alternating lights make a brown bird in a green landscape seem to change into a white bird in the snow while you watch in Hall 20 (Habitat Groups of Birds). Another exhibit was added to the synoptic series of birds of the world in Boardman Conover Hall (Hall 21). Both exhibits were prepared by Taxidermist Carl W. Cotton, who has begun a new exhibit on color in birds. An exhibit to illustrate form and function in birds, utilizing carved feet of different types of birds placed against appropriate stylized backgrounds, was prepared by Artist Krstolich for Hall 21. An exhibit of crocodiles and their relatives prepared by Taxidermist Ronald J. Lambert was installed in Albert W. Harris Hall (Hall 18, Reptiles, Amphibians, and Insects). The local emergence of the seventeen-year cicadas (see page 61) was commemorated by an exhibit showing life-history, habits, and relatives. The exhibit, which was installed temporarily (see page 35) in George M. Pullman Hall (Hall 13) and then placed in Hall 18, was prepared by Krstolich, Lambert, and Assistant Laura Brodie.



LIBRARY OF THE MUSEUM

The function of the Museum's Library is intimately related to the needs and plans of the four scientific departments of the Museum, which are dedicated to ever-further advancement through research in their respective fields. Thus the Library has continued to add current materials to its collections, and acquisition of scientific journals continues to be a matter of supreme importance. The total number of items received for the year by the Library is 15,315 (see a selected list of books and serials on page 108).

The amount and character of work in our Library undergo constant change that necessitates reorganization of plans and programs. Monthly staff meetings have been held for discussion of new problems, and this exchange of ideas and methods has resulted in better understanding of each individual's special duties so that the flow of work from one section of the Library to another has continued without interruption despite handicaps of illness and changes in members of the staff.

The reactivation of the Division of Oceanic Archaeology and Ethnology in the Department of Anthropology necessitated a new survey of the book collection so that this division's holdings could be brought up to date. Acting on recommendations made by the recently appointed curator, Roland W. Force, an expert in this area of research, the Library succeeded in supplementing its holdings in this specific field, giving particular attention to filling gaps in serial holdings and to new journals. The need for additional maps in this division as well as in all other scientific divisions of the Museum is great. Many of the maps now in the Library are not easily available because the map collection has rapidly outgrown the present equipment for its proper filing and housing, and plans are in progress for adding more map cases.

The maintenance of the card catalogue, which serves as an author, title, and subject-index of a library's holdings, is an intensive and never-ending task even in those libraries that have passed the peak of their expansion. In addition to filing new cards, constant revision of the contents of the card catalogue is necessary in order to record changes in names of organizations, cessation or recommencement of publication of journals, death of authors (which requires addition of final date on all cards covering their works), and countless other minor amendments. A library such as that of Chicago Natural History Museum, which continues to show an increase in acquisitions year after year, must also make provision for accurate representation in the catalogue of all new material, both

individual publications and serial publications. But the problem of cataloguing and classifying the great number of incoming books and periodicals without delay remains crucial because the Museum Library is hampered by the shortage of experienced cataloguers that is now common to most libraries.

Where Library of Congress printed cards are available for particular volumes, cataloguing is greatly facilitated. Currently about one quarter of the Library's new acquisitions are not covered by printed cards and consequently time-consuming but important classificatory and bibliographical research must be done by the Museum cataloguer. In continuing the special phase of the reclassification program that the cataloguing division began last year, 1,218 additional volumes of serial publications, representing approximately 100 journals that are in constant use, were reclassified under the Library of Congress system, and 1,597 additional author-cards and a proportionate number of subject-cards were prepared indexing important articles in these journals. With the able assistance of William Peyton Fawcett, Antioch College student who is preparing for a career in library science, temporary title-cards were prepared for 114 titles transferred from the John Crerar Library in order that these items might appear in the Library's catalogue and thus receive the widest possible use. Fawcett made a beginning in a project to catalogue the maps in the Library's possession and also produced complete sets of cards for the catalogue covering the 25 phonograph-record items held by the Library. Altogether 1,456 volumes were reclassified. The total number of volumes classified, including the volumes classified in the East Asian Collection, comprised 4,354 volumes, represented by 9,890 cards filed into the card catalogue.

It is gratifying to report that in addition to continuing his work of cataloguing the Berthold Laufer Collection of Chinese and Japanese materials, which forms an important part of the East Asian Collection, Dr. Hoshien Tchen, Technical Adviser for the Oriental Collection, also catalogued a number of newly acquired Asiatic-language materials. A total of approximately 460 titles, consisting of more than 2,300 volumes, was catalogued this year, a large portion of which related to Chinese Buddhism, and, in consequence, much research was necessary to translate abstruse Buddhist technical terms into English. In addition to cataloguing, which required preliminary work such as assembling, numbering, cleaning, and repairing, Dr. Tchen wrote the descriptive information in Chinese and Japanese characters on the final catalogue cards, which were prepared by Mrs. M. Eileen Rocourt, Associate Li-

brarian. In processing the Laufer materials Dr. Tchen discovered that the collection included a number of important Chinese Buddhist works, most of them Ch'ing-period block-print editions printed by Buddhist publishers in the famous publishing centers of Hangchou in Chêkiang Province and Nanking, Ch'angshou, and Yangchou in Kiangsu Province.

Most noteworthy among accessions in the East Asian Collection are: (1) the *Po-na pên êrh-shih-ssü shih*, the Po-na edition of the 24 Standard Histories of China—photolithographic reproductions of outstanding early editions; (2) the *Hsien-tai kuo-min chi-pên chih-shih*, a set of more than 200 volumes covering a variety of subjects relevant to Chinese history and culture, presented to the Library as exchange material by the Ministry of Education, Republic of China; (3) several important basic Japanese reference works; and (4) relevant anthropological journals from Taiwan, the mainland of China, Japan, Hongkong, Indochina, the Philippines, Europe, and the United States (see page 109 for list of representative accessions in the East Asian Collection).

The control of acquisitions in serial form is an important function of a well-organized library. Here in the Museum Library the centralized recording and routing of serial publications to the departmental and divisional libraries is done with strict attention to detail, especially since most of the periodicals received are printed in foreign languages. Much of our Library's growth and the richness of its collection is the result of the extension and continuity of its exchange relations with scientific and other learned societies and institutions throughout the world.

Renovation and preservation of the contents of the four departmental libraries and the preparation for binding of selected incoming material resulted in another year of full activity in this division of the Library. Many books and periodicals required cleaning and rehabilitation before rebinding, and the great number cleaned and repaired in the Library effected considerable saving in commercial-bindery expenses. Continued efforts over the past several years have resulted in substantial economies and improvements in the Library's binding program (a total of 2,049 volumes were repaired or bound). This division of the Library is also responsible for labeling all volumes processed—the term "labeling" does not adequately describe the work (2,740 volumes were labeled). The mechanical steps in the preparation of books for the shelves involve perforation, book-plating, labeling, and marking with call numbers and ownership marks.

The general reading-room housing the main card-catalogue and the Kardex Serials Record is the center for information. Full use of its reference resources is made by Museum members, teachers, students, research workers, and those who seek information by means of the telephone. Considerable time is devoted by the Library staff to the important service of meeting specific requests. Because the Museum Library is not centralized but is divided into departmental and divisional libraries its use in terms of volumes borrowed is difficult to show (the recorded number of volumes lent is 2,191). The books used by readers and by those who borrow on interlibrary loan represent only a fraction of the continuous use of the Library's resources. The courtesies extended to us by libraries participating in the interlibrary-loan service are gratefully acknowledged. Throughout the year requests for photostats and photographic reproduction as well as microfilms have increased.

The project of completely cleaning, rearranging, and reshelving the books in the geology library was completed. The ease with which books are now found and the improved appearance of this departmental library justify the effort.

It is with deep gratitude and pleasure that we acknowledge the outstanding co-operation accorded to the Museum Library by the John Crerar Library, and we again express our thanks for the many courtesies to our Library and to members of the Museum staff. We are especially appreciative of the continued interest of Herman H. Henkle, Librarian, who made possible the transfer from the Crerar Library of additionally selected periodicals on the natural sciences, together with 149 volumes on malacology and 552 volumes on entomology. As in previous years the Library has benefited from the generosity of donors who contributed books and periodicals on a variety of subjects in the natural sciences. Our gratitude is here expressed to these friends of the Museum (see page 107).

The Library acknowledges the competent assistance given to it by the four students from Antioch College assigned to work on a part-time basis during the year. The bibliographies compiled by Miss Lucretia Kight and Miss Barbara Meredith enabled the Library to dispose of a number of volumes not relevant to the collection, including some duplicate material (disposal of these volumes was made through exchange and sale, and material sold netted the sum of \$1,116.50, all of which is reserved for Library purchases). Phillip Mershon assisted ably in the reading-room where he performed varied duties, and William Peyton Fawcett, whose knowledge of library procedure was of inestimable value, was especially helpful in the cataloguing division (see page 68).

PUBLIC RELATIONS

A large part of the publicity given to the Museum in 1956 came from two great fellows who lived some 75 million years ago—the giant dinosaurs *Gorgosaurus* and *Lambeosaurus* that were installed in Stanley Field Hall (see page 24). Their debut as a star attraction of the Museum was repeatedly signalized in newspapers and magazines and on television and radio through the final weeks of preparation until the unveiling of the exhibit to the public, and even after. They also became the subjects of verse and quips by various columnists, including one well-known radio commentator who whimsically corrupted their scientific names into “Gorgeous Georges” and “Lambie Pie,” which was quite apt because the former was the aggressive carnivore. Widespread international publicity was given to the dinosaurs through publication of a story and pictures in the magazine of UNESCO.

One of the most comprehensive as well as most charmingly written surveys of the Museum’s exhibits, activities, and many services to the public appeared in a series of six well-illustrated articles published in the *Chicago Tribune* in April. The series is the work of Chesly Manly, one of the newspaper’s most noted staff writers, who spent many days at the Museum collecting his data, assisted by the scientific departments and the Division of Public Relations. Mr. Manly’s articles are so fine that the Museum plans to reprint them in pamphlet form. The cover of the Museum’s *Bulletin* for April, “Fossil Man’s Hall of Fame,” showing Artist Gustaf Dalstrom’s conception of four types of prehistoric men as they would appear if dressed in modern top-hats and opera capes, attracted attention by its reproduction in the daily press and in important magazines like the *Scientific American*. Unusually extensive space, including a full page of rotogravure in the *Chicago Daily News*, was accorded in October to stories and pictures of Cameroons King’s House, a new exhibit. Publicity oddity of the year was Welwitschia, a large and rare plant of strange form displayed in a habitat group showing its Mossamedes Desert (Africa) environment. Although our exhibit had attracted considerable attention when it was installed in 1946, interest in it was suddenly revived in 1956 by publication of an article and pictures of it in *Natural History*, magazine of New York’s American Museum of Natural History, and for several months the Museum was flooded with urgent requests for pictures and story from magazines in Great Britain, France, Germany, the United States, and Canada. These are but a few instances readily recalled from the stream

of several hundred newspaper releases, press conferences, photography sessions, and radio and television contacts by which the Museum's name, activities, and purposes are kept before the public. The aim of this never-ceasing work is not so much to stimulate immediate public response to an exhibit or activity described in a release but rather to keep in the public mind an awareness of the Museum and what it is doing—to make the community feel that the Museum is a dynamic force in science and education. The Museum's monthly *Bulletin* for Members proved fruitful as a source of general publicity, for many of its articles and pictures led to publicity in other media.

For their recognition of the Museum's civic values and for their co-operation, acknowledgment is made to Chicago's metropolitan dailies—the *American*, *Daily News*, *Sun-Times*, and *Tribune*—and to hundreds of neighborhood newspapers, suburban newspapers, foreign-language newspapers, and local magazines of the Chicago area. For carrying the more important news of the Museum to all parts of America and around the world, the Museum is indebted to such press services as Associated Press, United Press, Inter-



An annual event in February at the Museum is the Chicago International Exhibition of Nature Photography, which is sponsored by the Nature Camera Club of Chicago. This photograph of the Eleventh Exhibition is by Louis W. Braun, Chicago.

national News Service, and Science Service. The City News Bureau of Chicago generously offered its service as a link with both the local press and national services in speeding transmission of news. For air-time and liberal co-operation our gratitude is given to all Chicago television and radio stations and the networks with which the major ones are affiliated: nineteen independent radio stations serving limited areas in and about Chicago as well as the large television and radio outlets that have ties with Columbia Broadcasting System, National Broadcasting Company, American Broadcasting Company-Paramount Theatres, Inc., Mutual Broadcasting System, and Dumont Television Network.

Four transportation systems—the Chicago Transit Authority, Illinois Central System, Chicago and North Western Railway, and Chicago, Aurora and Elgin Railroad—continued their courtesy, as for many years past, in displaying on station platforms and in passenger coaches placards advertising the Museum's lectures for adults and the children's programs provided, respectively, by the Edward E. Ayer Lecture Foundation and the James Nelson and Anna Louise Raymond Foundation in the spring and the fall.

This portrait of a typical young woman of Korea was presented to the Museum by Korean-American Friendship Association of Chicago to be placed among the illuminated transparencies of racial types of the world in Chauncey Keep Memorial Hall (3).



CO-OPERATION WITH OTHER INSTITUTIONS

The Museum continued in co-operative relation with the Department of Anthropology of the University of Chicago and the Newberry Library (Ayer Collection) in the Philippine Studies Program, which enjoys the support of the Carnegie Foundation (see Annual Report 1954, page 81). During 1956 the Rockefeller Foundation granted scholarships for community studies in the Philippines to three students in the Program, and the Ford Foundation awarded similar grants to two others. In connection with the Museum's participation in the Micronesian-insect Survey (see Annual Report 1955, page 81) about thirty shipments totaling 5,868 specimens of Micronesian insects were sent to co-operating specialists for study. Of a total of more than 80,000 Micronesian insects processed in the Museum's Division of Insects since 1948, only about 6,000 must still be distributed to specialists. These remaining specimens belong to groups for which specialists have not yet been assigned. Some of the many other research projects in which the Museum has been co-operating with museums and universities throughout the world are mentioned in the reports of our scientific departments.

A course in museology was given in the Department of Anthropology in co-operation with the Department of Anthropology of the University of Chicago. The graduate course in vertebrate paleontology of the University of Chicago was held as usual in the Museum by Dr. Everett C. Olson, Professor of Vertebrate Paleontology at the university and Research Associate on the Museum's staff.

George I. Quimby, Curator of North American Archaeology and Ethnology, conducted a seminar at the University of Chicago. Roland W. Force, Curator of Oceanic Archaeology and Ethnology, addressed a seminar on field methodology at Northwestern University and at the University of Chicago. Dr. Theodor Just, Chief Curator of Botany, conducted a graduate seminar in systematics, ecology, and biogeography at Northwestern University and lectured before the departments of botany and zoology at Iowa State College, where, at a general lecture, he showed the Museum's film "Through These Doors." Dr. Julian A. Steyermark, Curator of the Phanerogamic Herbarium, lectured on his Venezuelan expeditions at the Henry Shaw School of Botany of Washington University (St. Louis) and, as principal speaker, at the two-day Science Fair at Kansas State Teachers College.

Dr. Rainer Zangerl, Curator of Fossil Reptiles, addressed a class in geology at the University of Chicago on paleontological procedures as shown by the Museum's Mecca project (see page 52) and

lectured at the Museum of Comparative Zoology at Harvard University, as did Dr. Karl P. Schmidt, Curator Emeritus of Zoology, who also lectured at the University of Utah and at Missouri Botanical Garden. Henry S. Dybas, Associate Curator of Insects addressed a class in ecology at the University of Chicago, and D. Dwight Davis, Curator of Vertebrate Anatomy, lectured at the University of Illinois College of Medicine and at North Central College. Miss Harriet Smith, of Raymond Foundation, on a three-month lecture tour, told the story of the Museum to high-school and preparatory-school groups throughout New York state, illustrating her talks with the Museum's film "Through These Doors."

The occasion in June of the first meeting in Chicago of the International Union of the Directors of Zoological Gardens made it possible to entertain this distinguished group at the Museum, where various members of the Museum staff served as guide-lecturers. Curator Emeritus Karl P. Schmidt spoke at the dinner held for this organization at Brookfield Zoo.

A number of graduate students carried on studies at the Museum under the supervision of various members of our scientific staff, and individual students seeking information came to the Museum in increasing numbers from distant as well as nearby colleges and universities. Classes came to the Museum from the University of Chicago, Chicago Teachers College, De Paul University, Eastern Illinois State College, George Williams College, University of Illinois, Illinois Institute of Technology, Loyola University, Morton Junior College, North Park College, Northwestern University, Roosevelt University, Valparaiso University, and Wheaton College. Supervised classes from the art schools of Chicago use the Museum as a classroom for sketching, modeling, and creative work (each summer the Museum presents in Stanley Field Hall a special showing of work by students of the School of the Art Institute of Chicago).

Because of its many activities for students of all ages, the Museum was selected as the location for the Chicago Area Science Fair, which for the first time displayed exhibits from the entire area in one place (last year the west-area exhibit was held in the Museum). John R. Millar, Deputy Director of the Museum, and Miss Miriam Wood, Chief, Miss Dolla Cox, and Miss Marie Svoboda, of Raymond Foundation, represented the Museum at the conferences held by the Chicago Teachers Science Association for the Science Fair.

Under the co-operative educational plan adopted in 1946 by this Museum and Antioch College, Yellow Springs, Ohio, nineteen young men and women were employed in 1956 by the Museum in its scientific departments and Library.

Among visitors in the Department of Anthropology during the year were Dr. Ichiro Awonuma, Meiji University, Tokyo; Dr. Junius B. Bird, American Museum of Natural History; Dr. Stephen F. Borhegyi, University of Oklahoma; Dr. Alfred Bühler, Basel, Switzerland; Dr. Schuyler V. R. Cammann, University Museum, Philadelphia; Harold J. Coolidge, Pacific Science Board, National Research Council; William B. Fagg, British Museum; Joaquin Figueira, Montevideo, Uruguay; Dr. George M. Foster, Jr., University of California; Dr. Christoph von Fürer-Haimendorf, University of London; V. L. Grottanelli, Museo Nazionale Preistorico, Rome; Dr. B. S. Guha, Bihar Tribal Research Institute, Ranchi, India; Dr. Josef Haekel, Dr. Robert Heine-Geldern, Dr. Anna Hohenwart-Gerlachstein, and Dr. Wilhelm Koppers (Director), Institute of Ethnology, University of Vienna; Miss Ma Nyunt Han, National Museum and National Art Gallery, Rangoon; Dr. Martin Heydrich, Cologne; Miss Sheila W. Hicks, Yale University; Miss Maxine Kleindienst, University of Chicago; Dr. Li Lin-ts'an, National Museum, Taichung, Taiwan; Dr. Ma T'ing-ying, National University of Taiwan, Taipei; Dr. Dorothy Menzel, University of California; Dr. Kenneth P. Oakley and Dr. d'A. Waechter, British Museum (Natural History); Dr. Masao Oka, Tokyo Metropolitan University; Dr. D. A. Ol'derogge, Head of African Section, Institute of Ethnography, Academy of Sciences of U.S.S.R., Leningrad; Dr. Cornelius Osgood, Yale University; Dr. Iker Larrauri Prado, National Museum of Anthropology, Mexico; Dr. Henry S. Robinson, University of Oklahoma; Dr. J. T. Robinson, Transvaal Museum, Pretoria; Dr. John H. Rowe, University of California; Dr. Carl Schuster, Woodstock, New York; Miss Ruth Simpson, Southwest Museum, Los Angeles; Dr. Ronald Singer, University of Cape Town; Dr. Cyril S. Smith, University of Chicago; Dr. Hisashi Suzuki, Tokyo University; Dr. P. V. Tobias, University of Wit-

Before beginning Postage-Stamp Safari (Museum Journey No. 6), these children, with their travel questionnaires in hand, ask the Director of the Museum about some of the stamps he lent from his private collection for the Safari exhibit. On this Museum Journey the children were asked to identify, in the Museum, animals printed on postage stamps from all parts of the world. Each child who completes four Museum Journeys receives a signed certificate designating him as a Museum Traveler. Eight Journeys qualify him as a Museum Adventurer. The Journeys, a special activity for children in the Museum, were originated by Raymond Foundation.



watersrand, Johannesburg; Dr. S. Henry Wassen, Göteborg, Sweden; Dr. J. M. Wright, University of Illinois Medical School; Dr. Keizo Yasumatsu, Kyushu University, Japan; and Miss You Wan-shan, Hongkong.

Visiting botanists included Dr. Marion Woods, Baxter Laboratories; Floyd A. Swink and Dr. Albert S. Rouffa, University of Illinois (College of Pharmacy); Dr. Sidney F. Glassman, University of Illinois; B. W. Taylor, Food and Agriculture Organization, Australia; Dr. Edward Davis, University of Massachusetts; Dr. Richard Edgren, Searle and Company, Skokie; Dr. Robert Vickery, University of Utah; Emil Kruschke, Milwaukee Public Museum; Dr. Erica Rawitscher and Dr. John McCormick, American Museum of Natural History; Edwin Koppe, Pennsylvania State College; Dr. Charles M. Rick and Dr. Arthur W. Haupt, University of California; William N. Watkins, United States National Museum; Rev. Philip S. Moore and Dr. J. Bramble, University of Notre Dame; Dr. P. Maheswari, University of Delhi; James Reese, Anderson College; Dr. Kenneth Damann, Eastern Illinois State College; Dr. Gregorio T. Velasquez, University of the Philippines; Mrs. Fay K. Daily, Butler University; and Edwin T. White, University of Illinois Research and Educational Hospital.

Dr. A. S. Brink, of the Bernhard Price Institute for Paleontological Research, University of Witwatersrand, Johannesburg, and Dr. Edwin H. Colbert, of the American Museum of Natural History, used the Museum's fossil-reptile collections for study. Other visitors in the Department of Geology were Dr. Bertram L. Hanna, Medical College of Virginia; Dr. Claude W. Hibbard, University of Michigan; Dr. Nicholas Hotton III, University of Kansas; Dr. Richard Konizeski, Montana State University; Dr. Adolph Seilacher, University of Tübingen, Germany; Dr. Elwin Simons, Princeton University; Dr. Paul McGrew, University of Wyoming; Miss Marie Hopkins, Idaho State College; Dr. Margaret Jean Hough, United States Geological Survey; and Dr. Charles A. Reed, University of Chicago School of Pharmacy.

Visiting zoologists included Dr. Edouard Boné and Dr. Georges Vandebrock, Louvain University, Belgium; Dr. Jorge Crespo, Buenos Aires; Dr. George Kelemen, Harvard Medical School; Dr. Fred Stenn, Northwestern University School of Medicine; Walton Lee, Great Lakes; Dr. Ralph Johnson and Dr. S. L. Washburn, University of Chicago; Dr. Dorothy Franzen, Wesleyan College; Dr. N. Virkki, University of Helsinki; Dr. C. O. Bechtol, Yale University School of Medicine; Dr. J. R. Close, Oakland;

Dr. J. W. Cooper, Honolulu; Dr. P. V. Tobiasz, University of Witwatersrand, Johannesburg; Dr. J. T. Robinson, Transvaal Museum; Dr. V. Carbonell, University of Chicago; Dr. H. Kurrek, Jackson Park Hospital, Chicago; Dr. G. E. Erickson, Harvard University; Dr. Charles Handley and Dr. Herbert Friedmann, United States National Museum; Dr. Stuart Landry, University of Missouri; Dr. Joseph C. Moore, American Museum of Natural History; Dr. Oliver P. Pearson and C. R. Ash, University of California; Richard Brewer, Dr. Victor E. Shelford, and Dr. Hurst H. Shoemaker, University of Illinois; Dr. Dana Snyder, University of Massachusetts; John S. Tener, Ottawa; Dr. Bernardo Villa, Universidad Nacional, Mexico; C. Blair Coursen, Chicago; Captain Jean Delacour, San Diego; Frank Iwen, University of Wisconsin; David Lupton, University of Wisconsin; Mrs. Robert T. Mengal, University of Kansas; Kenneth C. Parkes and Dr. Arthur Twomey, Carnegie Museum; Dr. Raymond Paynter, Museum of Comparative Zoology; Dr. Robert Storer, University of Michigan; Dr. Wilmer Tanner, Brigham Young University; Alan Leviton, Stanford University; Dr. Bernard Greenberg, Roosevelt University; Dr. Howard E. Evans, Cornell University; Dr. James E. Böhlke, Academy of Natural Sciences, Philadelphia; C. C. Lindsey, University of British Columbia; Dr. Giles W. Mead, United States Fish and Wildlife Service; Dr. Andreas B. Rehnitz, Scripps Institution of Oceanography; Donn E. Rosen, New York Zoological Society; Richard H. Rosenblatt and Dr. Boyd W. Walker, University of California at Los Angeles; Dr. E. G. Silas, Zoological Survey of India, Calcutta; Miss Clara Baltazar, Philippine Natural History Museum; Dr. Joseph Camin, Chicago Academy of Sciences; Dr. David Cook, Wayne University; J. R. Doncaster and Everard Britton, British Museum (Natural History); Dr. Carl Drake, Iowa State College; Dr. Walter Forster, Bavarian State Museum, Munich; Dr. Elli Franz, Senckenberg Museum, Frankfurt-am-Main; Dr. O. Haaf, G. Frey Museum, Munich; Dr. Carl Krekeler, Valparaiso University; Dr. J. Linsley Gressitt, Bernice P. Bishop Museum; Dr. John D. Lattin, Oregon State College; Dr. William M. Mann, United States National Zoological Park; Dr. Charles D. Michener and Dr. Robert Sokal, University of Kansas; Dr. Harlow B. Mills, Dr. Herbert S. Ross, and Dr. Richard B. Selander, Illinois State Natural History Survey; Dr. Rodger D. Mitchell, University of Vermont; Rev. J. S. Mouré, University of São Paulo, Brazil; Dr. Cornelius B. Philip, Hamilton, Montana; and Rev. W. J. Price, University of Notre Dame.

MOTION PICTURES

John Moyer, who has charge of the Division of Motion Pictures, assisted notably in the production of "shorts" required by the educational program of the Museum and in the editing and care of the Museum's specialized collection of educational films and was also, as a lecturer, of considerable importance in the Museum's public-relations program. Much of the year was devoted to a general check of all Museum films on file, which involves physical inspection, repair, and cleaning of each foot of film in the Film Library as well as re-editing and reclassifying by subject. All 35mm films, both negatives and prints, have now been removed, and material of value in those films was reduced to 16mm. Films on loan not needed were returned to their owners. Our Film Library now has ninety-six productions. Photography of the techniques involved in assembling the *Gorgosaurus* and *Lambeosaurus* skeletons and placing them on exhibition (see page 24) was completed. Several inquiries were received for a television program in which the Museum would take part, and work in this connection was undertaken.

"Toucans" is part of the newest section of the synoptic series of exhibits that will illustrate the birds of the world by selected examples (Boardman Conover Hall).



PHOTOGRAPHY AND ILLUSTRATION

Statistics seem inadequate to represent the report of the Divisions of Photography and Illustration at the Museum. To say that 22,449 negatives, prints, slides, kodachromes, and transparencies were produced by the Division of Photography does not give recognition to the high quality of the work that has made this division such an important factor in the Museum's operations. John Bayalis and Homer V. Holdren are ever alert to the needs of the Museum, not only for recording but for interpreting its work. The series of photographs showing construction of the *Gorgosaurus-Lambeosaurus* exhibit now in Stanley Field Hall (see page 24) is of great importance both as a record of the past and as a guide for future construction. Photographs of exceptional interest were prepared to illustrate the Museum's monthly *Bulletin* and to provide its covers, and patient and painstaking care was required in bringing out the exact detail necessary for the illustration of scientific documents. This pride of accomplishment was felt not only by the photographers but also by all working with them. Miss Mary Creed meticulously handled the details of record-keeping and expediting orders in addition to the general custodianship of the thousands of films that must be always available at a moment's notice. More than 123,000 negatives are now in the files of the Division of Photography.

E. John Pfiffner, Staff Artist in the Division of Illustration, produced a splendid mural of the bromeliad *Puya raimondii*, which is found in the Andes (see page 51), prepared illustrative material for the *Bulletin* and Museum publications, and assisted in the layout of exhibits for the Department of Zoology. Late in the year Miss Marion Pahl, Staff Illustrator, came to the Museum and ably assisted in the production of the great amount of illustrative material required by our staff of research scientists. The work of other persons in the field of illustration might well be recognized, including Mrs. Ruth Andris of the Department of Zoology, whose cartoons have appeared so often in the *Bulletin*, and Gustaf Dalstrom of the Department of Anthropology, whose drawing used on the cover of the April *Bulletin* was reprinted, by permission, in publications all around the world (see page 71). The work of Samuel H. Grove, Jr., in the Department of Botany, of Miss Maidi Wiebe in the Department of Geology, and of Miss Phyllis Wade in the Department of Zoology rarely comes to the attention of Members of the Museum but is of considerable importance in our publications or exhibition programs. (Examples of material prepared by the Division of Illustration are shown on page 84.)

PUBLICATIONS AND PRINTING

A total of 76,353 publications of the Museum was distributed in 1956, the largest number in our history. Of this total, 15,620 copies were sent out without charge to individuals and institutions with whom exchange relationships have been established and 60,733 copies were sold.

The Museum printed during the year twenty-six publications in its scientific series, one (reprint) in its popular series, two in its handbook series, and one annual report. The total number of copies printed was 56,526, with a total of 2,437 pages of type composition. Twelve numbers of *Chicago Natural History Museum Bulletin* were printed, averaging 6,850 copies an issue. Other work included posters, price lists, lecture schedules, specimen tags, and Museum Stories, totaling 722,185 impressions.

The following publications were issued during 1956:

ADMINISTRATIVE PUBLICATION

Report of the Director to the Board of Trustees for the Year 1955, 151 pages, 24 illustrations

DEPARTMENT OF ANTHROPOLOGY

COLE, FAY-COOPER

The Bukidnon of Mindanao, Fieldiana: Anthropology, volume 46, 142 pages, 66 illustrations, 1 map

MARTIN, PAUL S., JOHN B. RINALDO, ELAINE A. BLUHM, AND HUGH C. CUTLER

Higgins Flat Pueblo, Western New Mexico, Fieldiana: Anthropology, volume 45, 218 pages, 85 illustrations

MARTIN, RICHARD A.

Mummies, Popular Series, Anthropology, number 36, 43 pages, 20 illustrations (reprint)

PLASS, MARGARET

The King's Day, A Day in the Life of an African King, Anthropology Handbook, 32 pages, 10 illustrations, 1 map

RINALDO, JOHN B., AND ELAINE A. BLUHM

Late Mogollon Pottery Types of the Reserve Area, Fieldiana: Anthropology, volume 36, number 7, 39 pages, 33 illustrations, 1 map

DEPARTMENT OF BOTANY

MACBRIDE, J. FRANCIS

Flora of Peru, Botanical Series, volume 13, part 3A, number 2, 458 pages

MCVAUGH, ROGERS

Tropical American Myrtaceae, Notes on Generic Concepts and Descriptions of Previously Unrecognized Species, Fieldiana: Botany, volume 29, number 3, 86 pages, 6 illustrations

DEPARTMENT OF GEOLOGY

DENISON, ROBERT H.

A Review of the Habitat of the Earliest Vertebrates, Fieldiana: Geology, volume 11, number 8, 101 pages

OLSON, EVERETT CLAIRE

Fauna of the Vale and Choza: 11; Lysorophus: Vale and Choza; Diplocaulus, Cacops and Eryopidae: Choza, Fieldiana: Geology, volume 10, number 25, 10 pages, 2 illustrations

Fauna of the Vale and Choza: 12; A New Trematopsid Amphibian from the Vale Formation, Fieldiana: Geology, volume 10, number 26, 6 pages, 2 illustrations

Fauna of the Vale and Choza: 13; Diadectes, Xenacanthus, and Specimens of Uncertain Affinities, Fieldiana: Geology, volume 10, number 27, 6 pages, 2 illustrations

PATTERSON, BRYAN

Early Cretaceous Mammals and the Evolution of Mammalian Molar Teeth, Fieldiana: Geology, volume 13, number 1, 107 pages, 17 illustrations

REED, CHARLES A.

A New Species of the Fossorial Mammal Arctoryctes from the Ogliocene of Colorado, Fieldiana: Geology, volume 10, number 24, 7 pages, 1 illustration

RICHARDSON, EUGENE S., JR.

Pennsylvania Invertebrates of the Mazon Creek Area, Illinois, Fieldiana: Geology, volume 12 (4 numbers), 76 pages, 38 illustrations, 3 maps

ZANGERL, RAINER

Dinosaurs, Predator and Prey: Gorgosaurus-Lambeosaurus, An Exhibit in Stanley Field Hall, Geology Handbook, 16 pages, 8 illustrations

DEPARTMENT OF ZOOLOGY

DYBAS, HENRY S.

A New Genus of Minute Fungus-Pore Beetles from Oregon, Fieldiana: Zoology, volume 34, number 38, 8 pages, 3 illustrations

GREY, MARION

The Distribution of Fishes Found Below a Depth of 2000 Meters, Fieldiana: Zoology, volume 36, number 2, 265 pages, 1 illustration

INGER, ROBERT F.

Some Amphibians from the Lowlands of North Borneo, Fieldiana: Zoology, volume 34, number 36, 36 pages, 7 illustrations

Notes on a Collection of Fishes from Southeastern Venezuela, Fieldiana: Zoology, volume 34, number 37, 16 pages, 3 illustrations

MARX, HYMEN

A New Lacertid Lizard from Angola, Fieldiana: Zoology, volume 39, number 2, 5 pages.

MEISTER, WALDEMAR, AND D. DWIGHT DAVIS

*Placentation of the Pigmy Treeshrew *Tupia minor**, Fieldiana: Zoology, volume 35, number 4, 25 pages, 18 illustrations

MINTON, SHERMAN A., JR.

*A New Snake of the Genus *Tantilla* from West Texas*, Fieldiana: Zoology, volume 34, 4 pages, 1 illustration



MUSEUM PUBLICATIONS IN 1956
DEPARTMENT OF ZOOLOGY (CONTINUED)

RAAB, GEORGE B.

A New Plethodontid Salamander from Nuevo León, Mexico, Fieldiana: Zoology, volume 39, number 3, 10 pages, 1 illustration

RAND, AUSTIN L., AND ROBERT L. FLEMING

Two New Birds from Nepal, Fieldiana: Zoology, volume 39, number 1, 3 pages

SCHMIDT, KARL P.

Philippine Zoological Expedition 1946-1947, On The Status and Relations of Crocodylus mindorensis, Fieldiana: Zoology, volume 33, number 5, 7 pages

SCHMIDT, KARL P., AND HYMEN MARX

The Herpetology of Sinai, Fieldiana: Zoology, volume 39, number 4, 20 pages, 3 illustrations, 1 map

SCHWARTZ, ALBERT

Geographic Variation in the Chicken Turtle Dierochelys reticularia Latreille, Fieldiana: Zoology, volume 34, number 41, 43 pages, 6 illustrations, 1 map

STANNARD, LEWIS J., JR.

Two New Thrips from Baltic Amber (Thysanoptera; Terebrantia), Fieldiana: Zoology, volume 34, number 40, 8 pages, 3 illustrations

VAN SOMEREN, V. G. L.

Days with Birds, Fieldiana: Zoology, volume 38, 523 pages, 126 illustrations

JAMES NELSON AND ANNA LOUISE RAYMOND FOUNDATION
FOR PUBLIC SCHOOL AND CHILDREN'S LECTURES

SVOBODA, MARIE

"Bible Plants," series of 9 Museum Stories, numbers 297-305 (each story 4 pages), illustrated

WEAVER, DOLLA COX

"Days of the Dinosaurs," series of 8 Museum Stories, numbers 306-313 (each story 4 pages), illustrated

The Division of Illustration as usual was called upon to furnish a wide variety of illustrative and decorative material for the departments and the divisions of the Museum. Examples of this work, by E. John Pfiffner, Staff Artist, are shown at left: sack for The Book Shop, "Bulletin" logotype, television slide, drawing of "Dinosaur Family Tree" printed on back of a Museum Story (Raymond Foundation), mural in Martin A. and Carrie Ryerson Hall, sketch for proposed mural, drawing of new species of deep-sea fish for the Museum's Fieldiana series of technical writings, sticker for the annual nature-photography exhibit, the Spring Programs mailer, two drawings for Museum Stories, and a Book Shop brochure on African woodcarving.

MUSEUM PUBLICATIONS IN 1956

CHICAGO NATURAL HISTORY MUSEUM BULLETIN

Chicago Natural History Museum Bulletin, volume 27 (1956), 12 numbers, 96 pages, illustrated

THE FOLLOWING ARTICLES AND REVIEWS BY STAFF MEMBERS OF CHICAGO NATURAL HISTORY MUSEUM ARE PRINTED IN VOLUME 27 OF THE BULLETIN:

BLAKE, EMMET R.

"'It's Done with Mirrors' in New Bird Exhibit," no. 5, p. 5

"Songless Perching Birds Have Charm of Diversity," no. 12, p. 3

Review of *American Water and Game Birds* (by Austin L. Rand), no. 11, p. 2

BLUHM, ELAINE, AND DAVID J. WENNER, JR.

"Prehistoric Culture of Chicago Area Uncovered," no. 2, pp. 5-6

DYBAS, HENRY S.

"Millions of Seventeen-year Cicadas Due Here in May," no. 5, pp. 3-4

"Museum Men Take Cicada Census, Tape-record Songs," no. 8, pp. 3-4, 7

FORCE, ROLAND W.

"Our Pacific Exhibits Are Worth a Brag!" no. 10, pp. 3, 4

GREGG, CLIFFORD C.

"Marshall Field, 1893-1956," no. 12, p. 2

HAAS, FRITZ

"A Deep-sea 'Bug,'" no. 5, p. 7

Review of *How to Collect Shells* [a symposium published by the American Malacological Union], no. 7, p. 5

HERSHKOVITZ, PHILIP

"Nature Mystery: The Secret of the Paca's Pouches," no. 9, pp. 5, 7

INGER, ROBERT F.

"Collecting in the Borneo Rain Forests," no. 10, pp. 7, 8

"Exhibit Tells the Facts about Crocodilians," no. 4, p. 5

"Expedition to Borneo Gets Under Way," no. 4, p. 6

Review of *The Natural History of North American Amphibians and Reptiles* (by James A. Oliver), no. 8, p. 8

JUST, THEODOR

"Welwitschia, Living Fossil of South African Desert," no. 11, pp. 3-4

Review of *Flora of Winnebago County, Illinois* (by Egbert W. Fell and others), no. 6, p. 2

Review of *Vascular Plants of Illinois* (by George Neville Jones and George Damon Fuller), no. 6, p. 2

MARTIN, PAUL S.

"Southwest Expedition Breaks New Trails," no. 6, p. 5

"Trailing a Lost Tribe of Centuries Ago," no. 11, p. 4

Review of *The Story of Man* (by Carleton S. Coon), no. 1, p. 7

NELSON, EDWARD M.

"How Fishes Float While Submerged," no. 6, pp. 6, 8

QUIMBY, GEORGE I.

"A 'Hall of Fame' for Fossil Man," no. 4, p. 7



Types of birds' feet are placed against a stylized background where birds engaged in many characteristic activities are shown in silhouette (Boardman Conover Hall).

RAND, AUSTIN L.

"A Scientist Admonishes Teachers and Pupils," no. 9, pp. 2, 7

"Community Singing by Bird Choirs," no. 6, p. 7

"Dangerous Birds," no. 1, p. 4

"Exhibit of World's Songbirds Completed," no. 9, p. 6

"Island Homes Provide Security to Birds," no. 12, p. 7

Review of *American Bird Songs* (Cornell University Records), no. 7, p. 5

RICHARDSON, EUGENE S., JR., AND RAINER ZANGERL

"Key to Past Sought in Louisiana Bayous," no. 11, pp. 6-7

RINALDO, JOHN B.

"'Buried Treasure' Left by Ancient Indians," no. 12, p. 7

ROCKWELL, JANE

"A King Has His Day on Members' Night," no. 10, pp. 3, 4-5

"Everything from 'Hoppers to Hippos in Museum Gifts," no. 8, pp. 6-7

"International Museum Week Spotlights Co-operation," no. 10, pp. 2, 8

ROSS, LILLIAN A.

"Spider's Web: Engineering Feat and Art Creation," no. 1, pp. 3, 5

SCHMIDT, KARL P.

"Leon L. Walters, 1888-1956," no. 7, p. 2

STARR, M. KENNETH

"'Sun Drums' of Asia," no. 7, pp. 6-7

MUSEUM PUBLICATIONS IN 1956
THE MUSEUM BULLETIN (CONTINUED)

STEYERMARK, JULIAN A.

"Milkweed Insect Trap," no. 5, p. 8

THIERET, JOHN W.

"Facts about Dutch Elm Disease Told in New Exhibit," no. 6, pp. 3-4, 5

"Figs of Subtropics Grow in Chicago," no. 4, p. 8

"The Foxglove: Medicinal and Ornamental Plant," no. 9, p. 4

"The Papaw, Our Local 'Tropical' Fruit," no. 1, pp. 6-7

TRAYLOR, MELVIN A., JR.

"Twenty Thousand Birds of Southern Asia Received," no. 7, pp. 3-4

TURNBULL, WILLIAM D.

"Collecting Fossils in Washakie Basin," no. 12, p. 6

WENZEL, RUPERT L.

"Collection of Beetles Arrives from Vienna," no. 2, pp. 4, 7

WOODS, LOREN P.

"Problems of Conservation in the Great Lakes," no. 4, pp. 3-5

OTHER PUBLICATIONS OF STAFF MEMBERS IN 1956

DEPARTMENT OF ANTHROPOLOGY

MARTIN, PAUL S.

"Arrowhead," in *Britannica Junior*, 1956 ed., vol. 1, pp. 390a, 390b

QUIMBY, GEORGE I.

"The Locus of the Natchez Pelvin Find," *American Antiquity*, vol. 22, no. 1, pp. 77-79

RINALDO, JOHN B. (coauthor)

"Functional and Evolutionary Implications of Community Patterning," in "Seminars in Archaeology: 1955," *Memoirs of the Society for American Archaeology*, no. 11, pp. 129-157

STARR, M. KENNETH

"Ch'êng-tzŭ-yai: The Black Pottery Culture Site at Lung-shan-chên in Li-ch'êng-hsien, Shantung Province" (edited by Li Chi and others and originally published in 1934, in Chinese), translated and annotated by M. Kenneth Starr, *Yale University Publications in Anthropology*, no. 52, 232 pages, 54 plates, 12 figures, 25 tables

DEPARTMENT OF BOTANY

DROUET, FRANCIS

"A Preliminary Study of the Algae of Northwestern Minnesota," *Proceedings of the Minnesota Academy of Science*, vol. 22, pp. 116-138

"A Second List of Freshwater Algae, Chiefly from New Brunswick," *Rhodora*, vol. 58, no. 689, pp. 117-124 [with Herbert Habeeb]

"Revision of the Coccoid Myxophyceae," *Butler University Botanical Studies*, vol. 12, pp. 1-218 [with William A. Daily]

Review of *Handbook of Algae* (by Herman S. Forest), in *Bulletin of the Torrey Botanical Club*, vol. 82, no. 6, p. 507

OTHER PUBLICATIONS OF STAFF MEMBERS IN 1956

JUST, THEODOR

"Fifty Years of Paleobotany, 1906-1956," *American Journal of Botany*, vol. 44, no. 1, pp. 93-99

"The Ferns and Their Allies in the Past," in *A Field Guide to the Ferns and Their Related Families of Northeastern and Central North America* by Boughton Cobb (The Peterson Field Guide Series No. 10, Houghton Mifflin Company), pp. 254-257

SHERFF, EARL E.

"Some Recently Collected Dicotyledonous Hawaiian Island and Peruvian Plants," *American Journal of Botany*, vol. 43, no. 7, pp. 475-478

STEYERMARK, JULIAN A.

"*Asclepias syriaca* var. *kansana* in New York State," *Rhodora*, vol. 58, no. 691, pp. 197-198

"Eastern Witch Hazel," *Missouri Botanical Garden Bulletin*, vol. 44, no. 7, pp. 98-101

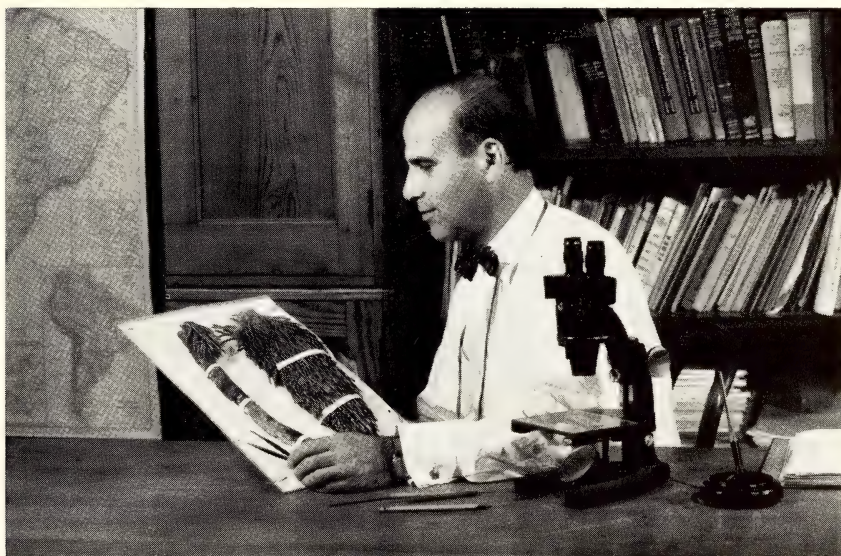
"Late October Flowers in Missouri," *Missouri Botanical Garden Bulletin*, vol. 44, no. 8, pp. 116-118

"Missouri's Crop of Wild Annuals and Biennials," *Missouri Botanical Garden Bulletin*, vol. 44, no. 3, pp. 41-42

"Rare Missouri Plants—IV, Whorled Pogonia or Purple Five-leaved Orchid," *Missouri Botanical Garden Bulletin*, vol. 44, no. 7, pp. 102-103

"Rare Missouri Plants—V, Umbrella Plant," *Missouri Botanical Garden Bulletin*, vol. 44, no. 7, pp. 106-107

Dr. Julian A. Steyermark, Curator of the Phanerogamic Herbarium, examines a mounted specimen of one of the bizarre members of the Aster Family (Compositae), an undescribed genus that he found on the summit of Chimanta-tepui in Venezuela.



OTHER PUBLICATIONS OF STAFF MEMBERS IN 1956

JULIAN A. STEYERMARK (CONTINUED)

"Rice, Northward Ho!" *Missouri Botanical Garden Bulletin*, vol. 44, no. 9, pp. 136-137

"*Tillandsia Standleyi*," *Bromeliad Society Bulletin*, vol. 6, no. 1, pp. 6-7 [with Albert A. Vatter, Jr.]

Review of *Flora of Winnebago County, Illinois* (by Egbert W. Fell and others), in *Rhodora*, vol. 58, no. 693, pp. 273-274

Review of *Vascular Plants of Illinois* (by George Neville Jones and George Damon Fuller), in *The American Midland Naturalist*, vol. 55, no. 2, pp. 508-509

THIERET, JOHN W.

"Bryophytes as Economic Plants," *Economic Botany*, vol. 10, no. 1, pp. 75-91

"Nardoo," *American Fern Journal*, vol. 46, no. 3, pp. 108-109

"*Stenandrium* Nees versus *Gerardia* L.," *Taxon*, vol. 5, no. 3, pp. 58-59

DEPARTMENT OF ZOOLOGY

BLAKE, EMMET R.

"A Collection of Panamanian Nests and Eggs," *The Condor*, vol. 58, no. 5, pp. 386-388

"Unusual Eggs of the Boat-billed Heron," *The Wilson Bulletin*, vol. 68, no. 3, pp. 251-252

GREY, MARION

"New Records of Deep Sea Fishes, Including a New Species, *Oneirodes bradburyae*, from the Gulf of Mexico," *Copeia*, 1956, no. 4, pp. 242-246, 2 figures

HAAS, FRITZ

"Was ist *Bulimus minimus* Philippi?" *Archiv für Molluskenkunde*, vol. 85, p. 84

INGER, ROBERT F.

"Morphology and Development of the Vocal Sac Apparatus in the African Frog *Rana* (Ptychadena) *porosissima* Steindachner," *Journal of Morphology*, vol. 99, no. 1, pp. 57-72

RAND, AUSTIN L.

"Amateur Bird Student Is in an Envious Position," *Cleveland Audubon Society Bulletin*, vol. 2, no. 6, p. 2

American Water and Game Birds (New York, E. P. Dutton and Co., Inc.), 239 pages, 167 illustrations (127 in color), 35 silhouettes by Ugo Mochi

"Changes in English Sparrow Population Densities," *The Wilson Bulletin*, vol. 68, pp. 69-70

"First Revisor of the Eastern Sapsuckers," *The Auk*, vol. 73, p. 139

"Foot-stirring as a Feeding Habit of Wood Ibis and Other Birds," *The American Midland Naturalist*, vol. 55, pp. 96-100

SCHMIDT, KARL P.

"Amphibians and Reptiles from Iran," *Videnskabelige Meddelelser fra Dansk Naturhistorisk Forening*, vol. 117, pp. 193-207

TRAYLOR, MELVIN A., JR.

Review of *A Distributional Check List of the Birds of Illinois* (by Harry R. Smith and Paul W. Parmalee), in *The Wilson Bulletin*, vol. 68, no. 2, p. 165

ACTIVITIES OF STAFF MEMBERS IN SCIENTIFIC SOCIETIES

Dr. Paul S. Martin, Chief Curator of Anthropology, and Dr. John B. Rinaldo, Assistant Curator of Archaeology, attended the Pecos Conference on Southwestern Archaeology in Flagstaff, Arizona. George I. Quimby, Curator of North American Archaeology and Ethnology, attended the annual meetings of the Society for American Archaeology in Lincoln, Nebraska, and the field meeting in Michigan of Friends of the Pleistocene, Midwest Section. Roland W. Force, Curator of Oceanic Archaeology and Ethnology, attended the annual meetings in Santa Monica, California, of the American Anthropological Association, where he presented a paper in a special symposium on Micronesia and participated in an organizational meeting of the United States and Hawaiian Branch of the Far-Eastern Prehistory Association. Miss Elaine Bluhm, Assistant in Archaeology, and Allen S. Liss, Assistant in Anthropology, attended meetings in Springfield of the Illinois Archaeological Survey, of which Miss Bluhm was elected secretary. Dr. Donald Collier, Curator of South American Archaeology and Ethnology, was elected chairman of the Institute of Andean Research. Curator Collier and Curator Quimby attended the meetings in Chicago of the American Association of Physical Anthropologists.

Dr. Theodor Just, Chief Curator of Botany, was one of six speakers at the Golden Jubilee Symposium "Progress and Outstanding Achievements in Various Fields of Botany During the Past Fifty Years," which was held on August 29 at the University of Connecticut to commemorate the founding in 1906 of the Botanical Society of America. He was appointed a member of the Committee on Systematic Biology sponsored on behalf of the National Science Foundation by the American Institute of Biological Sciences and a member of the Subcommittee of Paleobotany for the Ninth Botanical Congress (1959) and continued as a member of the Council of the Society for the Study of Evolution. Dr. Julian A. Steyermark, Curator of the Phanerogamic Herbarium, participated in a four-day field trip to the Driftless Area of Wisconsin, Minnesota, and Iowa, conducted by the Central States section of the Botanical Society of America.

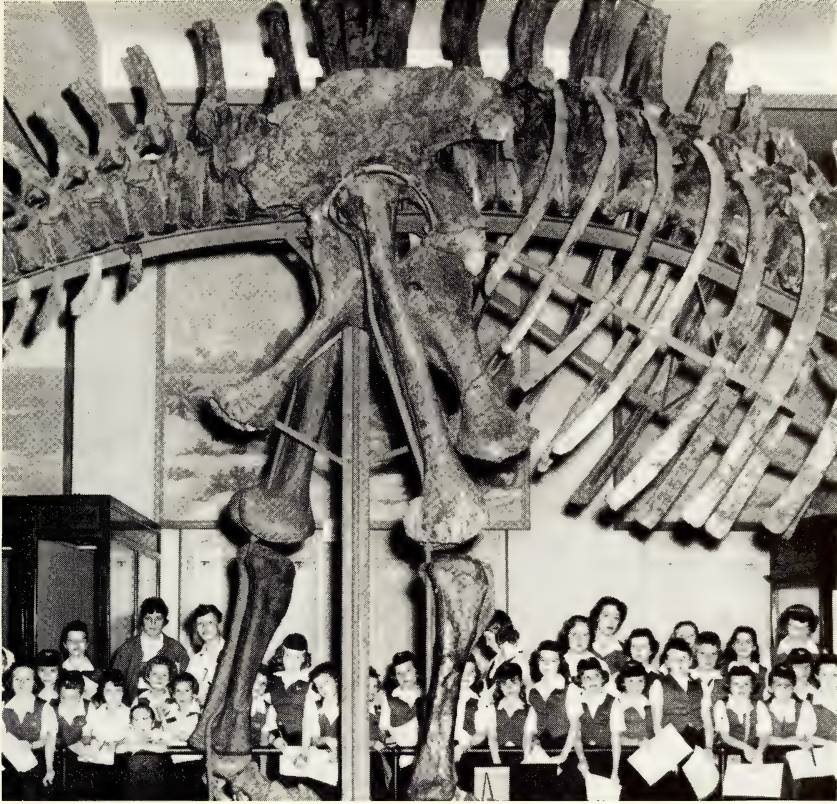
Dr. Sharat K. Roy, Chief Curator of Geology, attended the meetings in Mexico City of the International Geological Congress. Dr. Robert H. Denison, Curator of Fossil Fishes, attended meetings in Chicago of the Committee on Government Relations and of the Board of Directors of the American Geological Institute, serving,

with Dr. Rainer Zangerl, Curator of Fossil Reptiles, as alternate director for the Society of Vertebrate Paleontology. Curator Denison attended the annual meetings in New York of the Society of Vertebrate Paleontology and the Society for the Study of Evolution and the meetings at Higgins Lake, Michigan, of the American Society of Ichthyologists and Herpetologists. Dr. Eugene S. Richardson, Jr., Curator of Fossil Invertebrates, attended the meetings in Chicago of the American Association of Petroleum Geologists, and William D. Turnbull, Assistant Curator of Fossil Mammals, attended the meetings, also in Chicago, of the American Association of Physical Anthropologists.

Dr. Austin L. Rand, Chief Curator of Zoology, and Melvin A. Traylor, Jr., Assistant Curator of Birds, attended the meetings in Denver of the American Ornithologists' Union, where Chief Curator Rand was elected a vice-president and appointed to the Finance Committee. Dr. Karl P. Schmidt, Curator Emeritus of Zoology, who was elected to the National Academy of Sciences, attended meetings in Washington, D.C., of the Committee on Systematic Biology (sponsored by the American Institute of Biological Sciences on behalf of the National Science Foundation) and of the National Science Foundation. Dr. Schmidt participated in the Institute of Biology at the University of Utah (held under the auspices of the National Science Foundation) and, with Dr. Robert F. Inger, Curator of Amphibians and Reptiles, in the Midwest Symposium on Systematic Biology at Missouri Botanical Garden.

Loren P. Woods, Curator of Fishes, Dr. Edward M. Nelson, Associate in the Division of Fishes, and Miss Laura Brodie, Assistant in Zoology, attended the meetings at Higgins Lake of the American Society of Ichthyologists and Herpetologists, where Dr. Nelson presented two papers and Curator Woods was elected vice-president for conservation and re-elected to a joint committee on common names of fishes. Philip Hershkovitz, Curator of Mammals, Luis de la Torre, Associate in the Division of Mammals, and Miss Sophie Andris, Osteologist, attended the meeting of the American Society of Mammalogists at Higgins Lake. Rupert L. Wenzel, Curator of Insects, and Henry S. Dybas, Associate Curator, attended the Tenth International Congress of Entomology in Montreal, where Curator Wenzel presented an illustrated paper. D. Dwight Davis, Curator of Vertebrate Anatomy, took part in the meetings in Chicago of the American Association of Physical Anthropologists.

The Museum was represented at the annual meeting in St. Louis of the Midwest Conference of Museums of the American Association of Museums by Miss Miriam Wood, Chief of James Nelson and Anna



"Blue Birds" in Dinosaur Land (see page 30)

Louise Raymond Foundation, and John R. Millar, Deputy Director of the Museum, who was vice-president for Illinois of the Conference. Miss Wood addressed the meeting on "The Schools Come to the Museum." Meetings of the American Library Association and the Special Libraries Association were attended by Mrs. Meta P. Howell, Librarian, Mrs. M. Eileen Rocourt, Associate Librarian, and Miss Marjorie A. West, Assistant to the Librarian.

Members of the Museum's scientific staff who serve in various capacities on editorial boards of scientific journals include Chief Curator Just, *Lloydia* (editor) and *American Journal of Botany*; Curator Emeritus Schmidt, *Biological Abstracts*; Assistant Curator Turnbull, *Saugetierkundliche Mitteilungen* (Stuttgart, Germany) and *Society of Vertebrate Paleontology News Bulletin*; and Curator Woods, *The American Midland Naturalist*.

CAFETERIA

Attendance in the cafeteria for the year amounted to 237,394, an increase over last year of slightly more than 21,000 persons. Receipts also increased slightly but not in proportion to attendance because the average check, both in the cafeteria and in the lunch-room, was slightly less than a year ago.

MAINTENANCE, CONSTRUCTION, AND ENGINEERING

The completion of the dinosaur exhibit in Stanley Field Hall (see page 24) called for construction of the base, curb, and railing as well as a temporary enclosure for the exhibit to permit Museum technicians to work unhampered. Construction and lighting work in the Hall of Meteorites and Minerals (Hall 35, Clarence Buckingham Hall) included closing 48 windows with masonry and plaster, construction and installation of 26 built-in wall-cases, and modernization of six exhibition cases formerly in use. Wall outlets and two panel boards were installed to provide for lighting of exhibition cases and ceiling lights were removed (see Department of Geology, page 58). Remodeling Room 109 for the William J. and Joan A. Chalmers Mineralogical Laboratory included installation of an X-ray diffraction unit and other apparatus for accurate determination of mineral specimens and running in the heavy-duty power line required by the new electrical equipment (see page 54). In addition, new slim-line fixtures were recessed in the ceiling beams in Ernest R. Graham Hall (Hall 38, Fossil Vertebrates) to improve the lighting of the skeletal exhibits in the center of the hall.

As the first step in complete rehabilitation of Charles F. Mills-paugh Hall (Hall 26, North American Trees) 24 large windows opening on the court were closed, four exhibition cases were remodeled to eliminate excessive depth, and six others were refinished inside and out (see Department of Botany, page 50). A large mural was placed on the west wall of Martin A. and Carrie Ryerson Hall (Hall 29, Plant Life), and two panel-boards were installed to handle more efficiently the lighting of this hall. The extensive program for reinstallation of anthropological exhibits on the ground floor consumed much time of the maintenance and engineering crews (see Department of Anthropology, page 45). Because the scientific departments are not staffed to handle construction, moving, lighting, and refinishing of exhibition cases, these burdensome tasks are assumed by the Divisions of Maintenance and Engineering. Draw-

ings were prepared for the group of eight exhibition cases that will be required for the installation next year of the exhibit "Synopsis of the Animal Kingdom" (see Department of Zoology, page 66).

Bookcases, X-ray viewing-boxes, tray carts, and new fixtures were prepared for various members of the staff of the Division of Paleontology, and extensive changes were made in the office of the Curator of Mammals to provide better conditions for study of specimens. Two plant driers were built for the Department of Botany. The postcard counters at the North Door of the Museum were moved and additional counters installed to provide for the increasing business of the Book Shop and sales of postcards.

It was necessary again to winter-proof the steps at the north and south entrances of the Museum by tuck-pointing with an elastic waterproof compound. The old platform-scale was discarded and the floor timbers were replaced with reinforced concrete. Fourteen ventilating fans were installed in windows at the ends of the aisles on the third floor for more comfortable working conditions for the scientific staff. Throughout the building continuous cleaning and painting proceeded according to schedule. In the boiler room the summer season was used as usual to clean all boilers, pumps, and motors in preparation for the next season's work. The breeching and stack were cleaned of soot, the coal conveyor was overhauled, and worn flights were replaced. New power circuits were run into the pressroom to provide power for a new printing press and air-compressor. New 48-inch fixtures were placed in several offices and workrooms and twenty-four lamps were provided for various desks.

The heating plant generated a total of 60,165,000 pounds of steam, of which 10,998,470 pounds were sold to Shedd Aquarium and 16,874,605 pounds were sold to the Chicago Park District under existing contracts.

MISCELLANEOUS

In the pages that follow are submitted the Museum's financial statements, attendance statistics, door receipts, accessions, list of Members, articles of incorporation, and amended by-laws.

CLIFFORD C. GREGG, *Director*
Chicago Natural History Museum

CHICAGO NATURAL HISTORY MUSEUM

COMPARATIVE STATEMENT OF RECEIPTS AND EXPENDITURES CURRENT FUNDS

FOR THE YEARS 1956 AND 1955

GENERAL OPERATING FUND

RECEIPTS:	1956	1955
Endowment income—		
From investments in securities	\$ 321,785	\$ 299,048
From investments in real estate	373,147	404,601
	<u>\$ 694,932</u>	<u>\$ 703,649</u>
Chicago Park District—tax collections	\$ 241,832	\$ 184,031
Annual and sustaining memberships	28,680	26,670
Admissions	32,371	32,288
Sundry receipts, including general purpose contributions	51,105	45,607
Restricted funds transferred to apply against Operating Fund expenditures (contra)	90,659	69,305
	<u>\$1,139,579</u>	<u>\$1,061,550</u>
EXPENDITURES:		
Operating expenses—		
Departmental operating expenses	\$ 473,884	\$ 454,910
General operating expenses	396,910	373,961
Building repairs and alterations	98,118	95,128
	<u>\$ 968,912</u>	<u>\$ 923,999</u>
Collections—		
Purchases and expedition costs	\$ 64,441	\$ 42,490
Furniture, fixtures and equipment	24,927	5,253
Pensions and employees' benefits	61,928	62,894
Appropriations in lieu of premiums formerly payable on assigned life insurance	14,500	14,500
Provision for mechanical plant depreciation (contra)	10,000	10,000
Appropriated to cover operating deficit of the N. W. Harris Public School Extension (contra)	111	2,560
	<u>\$1,144,819</u>	<u>\$1,061,696</u>
DEFICIT FOR YEAR before special contribution	\$ (5,240)	\$ (146)
Special contribution to liquidate 1956 deficit	5,240	
NET DEFICIT FOR YEAR	<u>\$</u>	<u>\$ (146)</u>

AUDITOR'S CERTIFICATE APPEARS ON FOLLOWING PAGE

CONTINUED ON NEXT PAGE

CHICAGO NATURAL HISTORY MUSEUM

COMPARATIVE STATEMENT OF RECEIPTS AND EXPENDITURES—CURRENT FUNDS

FOR THE YEARS 1956 AND 1955 (CONTINUED)

THE N. W. HARRIS PUBLIC SCHOOL EXTENSION FUND

	1956	1955
Income from endowments.....	\$ 27,215	\$ 23,972
Expenditures.....	<u>27,326</u>	<u>26,532</u>
DEFICIT TRANSFERRED TO OPERATING FUND (CONTRA)	\$ <u>(111)</u>	\$ <u>(2,560)</u>

OTHER RESTRICTED FUNDS

RECEIPTS:	1956	1955
From Specific Endowment Fund investments.....	\$ 65,894	\$ 63,044
Contributions for specified purposes.....	34,499	17,000
Operating Fund appropriations for mechanical plant depreciation (contra).....	10,000	10,000
Sundry receipts—net.....	<u>68,379</u>	<u>65,481</u>
	\$ 178,772	\$ 155,525

EXPENDITURES:		
Transferred to Operating Fund to apply against expenditures (contra).....	\$ 90,659	\$ 69,305
Added to Endowment Fund principal.....	<u>48,000</u>	<u>36,000</u>
	\$ 138,659	\$ 105,305
EXCESS OF RECEIPTS OVER EXPENDITURES.....	\$ <u>40,113</u>	\$ <u>50,220</u>

THE TRUSTEES,
CHICAGO NATURAL HISTORY MUSEUM,
CHICAGO, ILLINOIS

In our opinion, the accompanying statement presents fairly the receipts and expenditures of the current funds of Chicago Natural History Museum for the years 1956 and 1955, in conformity with generally accepted accounting principles consistently applied during the years. Our examination of the statement was made in accordance with generally accepted auditing standards, and accordingly included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

ARTHUR YOUNG & COMPANY

Chicago, Illinois
February 1, 1957

COMPARATIVE ATTENDANCE STATISTICS AND DOOR RECEIPTS

FOR YEARS 1956 AND 1955

	1956	1955
Total attendance.....	1,101,512	1,072,676
Paid attendance.....	129,483	129,151
Free admissions on pay days		
Students.....	43,256	39,272
School children.....	128,880	98,408
Teachers.....	6,063	5,739
Members of the Museum.....	579	397
Service men and women.....	1,373	1,595
Special meetings and occasions.....	2,440	1,778
Press.....	35	9
Admissions on free days		
Thursdays (52).....	137,605	(52) 132,699
Saturdays (52).....	278,057	(52) 302,283
Sundays (52).....	373,741	(51) 361,345
Highest attendance on any day		
(March 24).....	12,937	(May 7) 16,227
Lowest attendance on any day		
(January 9).....	204	(February 7) 209
Highest paid attendance (July 4).....	3,781	(September 5) 3,430
Average daily admissions (364 days)....	3,026	(363 days) 2,955
Average paid admissions (208 days).....	622	(208 days) 620
<hr/>		
Number of picture postcards sold.....	225,401	239,020
Sales of Museum publications (scientific and popular), <i>General Guide</i> , and photographs; checkroom receipts...	\$24,221.95	\$20,443.37

Contributions and Bequests

Contributions and bequests to Chicago Natural History Museum may be made in securities, money, books, or collections. They may, if desired, take the form of a memorial to a person or cause, to be named by the giver. For those desirous of making bequests to the Museum, the following form is suggested:

FORM OF BEQUEST

I do hereby give and bequeath to Chicago Natural History Museum of the City of Chicago, State of Illinois:

Cash contributions made within the taxable year to Chicago Natural History Museum to an amount not in excess of 20 per cent of the taxpayer's net income are allowable as deductions in computing net income for federal income tax

ACCESSIONS 1956

DEPARTMENT OF ANTHROPOLOGY—ACCESSIONS

BIDDLE, W. C., Crystal River, Florida: 3 Hopi basket plaques—Arizona (gift)

CHICAGO, UNIVERSITY OF, Chicago: 41 flint artifacts—Bone Caves, southern France (gift)

CHICAGO NATURAL HISTORY MUSEUM: Collected by Miss Elaine Bluhm (Chicago Region Archaeological Field Trips, 1955–56): archaeological materials of stone, bone, and shell—Chicago area

Collected by Dr. Paul S. Martin (Southwest Archaeological Expedition, 1956): about 5,000 sherds and 150 projectile points, scrapers, flake knives, choppers, and manos—miscellaneous sites in vicinity of Vernon, Arizona

Purchases: cast of reconstructed skull of *Sinanthropus*, cast of flesh restoration of *Sinanthropus* female (for exhibition in Hall C); about 300 ethnological specimens from the Eastern Highlands of New Guinea

CONGER, MISS CORNELIA, Chicago: beaded cradlecover, pair of beaded moccasins, beaded bag, Northern Plains, probably Sioux—Idaho (gift)

FINNEGAN, MRS. EDWARD R., Chicago: opium pipe—China (gift)

FORCE, ROLAND W., Evanston, Illinois: 142 ethnological specimens—Western Caroline Islands, Trust Territory (gift)

FREDERICK, L. E., Tacoma, Washington: Tibetan woodblock—Lhasa, Tibet (gift)

GOODLAND, MISS ELIZABETH M., Chicago: 2 hand carrying-baskets with covers—Mindanao, Philippines (gift)

HAMM, REV. DAVID, Mindanao, Philippines: Moro musical instrument—Philippines (gift)

HEALEY, GILES, Pacific Palisades, California: 3 enlargments of photographs of Stela 2 at Bonampak—Chiapas, Mexico (gift)

HESTER, EVETT D., Jeffersonville, Indiana: 134 pieces from Hester Collection of Philippine ceramic recoveries (2nd of 3 parts of this collection that are being presented to the Museum)—Philippines (gift)

HODEL, MRS. CORINNE, Chicago: lady's robe—China (gift)

HOLDEN, E. C., Chicago: object of horn and lead—Chicago area (gift)

HOLMBLAD, MRS. EDWARD C., Chicago: embroidered cover for cricket box, embroidered square, stenciled silk-piece—China (gift)

MEEKER, ODEN, New York: bronze drum—Laos, Indochina (gift)

NATIONAL MUSEUM, Manila: type collection of sherds from Kalanay Cave Site, Masbate—Philippines (exchange)

NUERENBERG, MR. AND MRS. WILLIAM, Santa Monica, California: set of 8 small vases showing method by which cloisonné is made—China (gift)

POLYAK, STEPHEN, Chicago: Kickapoo cradleboard—Oklahoma (exchange)

QUIROZ, ROBERTO, Tempe, Arizona: wool poncho, leather cap ("Montera")—Bolivia (gift)

SAWYER, ALAN R., Chicago: beaded pendant, beaded sash, silver belt, pair of silver earrings, 3 silver gorgets, 7 silver brooches, Seminole—United States (exchange); 33 projectile points, Tiahuanaco site—Bolivia (exchange)

SHANAHAN, DENNIS E., Chicago: 12 prehistoric Eskimo archaeological objects of bone and ivory—near Point Barrow, Alaska (gift)

SHAPAS, THEODORE J., Dolton, Illinois: Late Woodland pottery vessel—Thorn Creek Forest Preserve, Chicago area (gift)

STITH, RICHARD B., Lacon, Illinois: handwritten notes in Japanese "from the original expedition to Point Barrow, Alaska"—probably Japan (gift)

TELLING, MISS ELISABETH, Guilford, Connecticut: 45 drawings by Miss Telling, made in Indonesia and Central America (gift)

TRANSVAAL MUSEUM, Pretoria, Union of South Africa: 15 casts of Early Pleistocene and Late Pliocene human skeletal material—South Africa (gift)

TRIER, ROBERT, McKenzie Bridge, Oregon: 3 fire pistons—Malay Peninsula (gift)

WENNER-GREN FOUNDATION FOR ANTHROPOLOGICAL RESEARCH, INCORPORATED, New York: Webster-Chicago dictation wire records (gift)

DEPARTMENT OF BOTANY—ACCESSIONS

AGRICULTURAL EXPERIMENT STATION, Urbana, Illinois: 3 seed samples (gift)

AMERICAN NURSERYMAN, Chicago: plant specimen (gift)

AMERICAN SPICE TRADE ASSOCIATION, Chicago: 32 economic specimens (gift)

AMERICAN SPICE TRADE ASSOCIATION, New York: 16 photographs (gift)

AMIDEI, T. P., East Chicago, Indiana: fungus (gift)

ARISTEGUIETA, DR. LEANDRO, Caracas, Venezuela: plant specimen (gift)

ARKANSAS, UNIVERSITY OF, Fayetteville: 56 plant specimens (exchange)

BANFIELD, DR. W. M., Amherst, Massachusetts: 5 photographs (gift)

BARTEL, KARL E., Blue Island, Illinois: 6 plant specimens (gift)

BAUER, WILLIAM, Imperial, Missouri: plant specimen (gift)

BENNETT, HOLLY REED, Chicago: 2,534 plant specimens (gift)

BERNICE P. BISHOP MUSEUM, Honolulu: photograph (gift)

BOTANIC GARDENS OF INDONESIA, Bogor, Java: 6 photographs (gift)

BRITISH MUSEUM (NATURAL HISTORY), London: 481 plant specimens (exchange)

CALIFORNIA, UNIVERSITY OF, Berkeley: 262 plant specimens, 54 photographs, 12 cryptogamic specimens, 921 fungi (exchange)

CANADA DEPARTMENT OF AGRICULTURE, Ottawa: 50 plant specimens (exchange)

CHICAGO NATURAL HISTORY MUSEUM: Collected by Dr. Norman C. Fassett (Salvadorean Project, 1950-51): 140 plant specimens

Collected by Dr. John W. Thieret (field trips): 1,004 plant specimens, 25 seed samples, 2 wood specimens

Purchases: 100 plant specimens—South Africa; 340 plant specimens—Australia; 1 pound of quinoa seeds—Ecuador; 803 plant specimens—Netherlands

CORNELL UNIVERSITY, Ithaca, New York: 3 photographs (gift)

CUATRECASAS, DR. JOSÉ, Washington, D.C.: 18 plant specimens (gift)

DELHI, UNIVERSITY OF, New Delhi, India: 100 plant specimens (exchange)

DENTZMAN, HENRY J., St. Louis: 33 wood specimens (exchange)

DONALD RICHARDS FUND: 100 mosses—New Zealand

DUNBAR, HENRY F., Kingston, New York: plant specimen (gift)

ESCUELA AGRÍCOLA PANAMERICANA, Tegucigalpa, Honduras: 324 plant specimens (exchange)

FIELD, DR. HENRY, Coconut Grove, Florida: 4 fungi (gift)

FOREST PRODUCTS LABORATORY, Madison, Wisconsin: 17 wood specimens (exchange)

FREE, MRS. JULIA, Sedona, Arizona: seed sample, 2 wood specimens (gift)

GIER, DR. LEROY J., Liberty, Missouri: 354 plant specimens (gift)

GRENADA CO-OPERATIVE NUTMEG ASSOCIATION, Grenada, British West Indies: several economic specimens (gift)

HANSEN, C. E., Chicago: 3 plant specimens (gift)

HAYNIE, MISS NELLIE V., Elmhurst, Illinois: 3 plant specimens (gift)

HERBÁRIO BARBOSA RODRIGUES, Itajaí, Santa Catarina, Brazil: 718 plant specimens (exchange)

HODGE, W. W., Kennett Square, Pennsylvania: photograph (gift)

ILLINOIS NATURAL HISTORY SURVEY, Urbana: 2 photographs (gift)

INDIAN BOTANIC GARDEN, Calcutta: 140 seed samples (exchange)

INSTITUTE OF FORESTRY, Wageningen, Netherlands: 107 wood specimens (exchange)

INSTITUTE OF JAMAICA, Kingston: 50 plant specimens (exchange)

INSTITUT FÜR KULTURPFLANZENFORSCHUNG DER DEUTSCHEN AKADEMIE DER WISSENSCHAFTEN ZU BERLIN, Berlin, Germany: 124 seed samples (exchange)

INSTITUT NATIONAL POUR L'ETUDE AGRONOMIQUE DU CONGO BELGE, Yangambi: 56 seed samples (gift)

INSTITUTO DE INVESTIGACION DE ZONAS DESÉRTICAS, San Luis Potosí, Mexico: 83 plant specimens (exchange)

INSTITUUT VOOR TOEGEPAST BIOLOGISCH ONDERZOEK IN DE NATUUR, Baarn, Netherlands: 3 photographs (exchange)

IOWA STATE COLLEGE, Ames: 772 seed samples (exchange); 2 seed samples, 3 photographs (gift)

JARDIM BOTANICO DO RIO DE JANEIRO, Rio de Janeiro, Brazil: 250 plant specimens (exchange)

LINCOLN PARK CONSERVATORY: Chicago: 2 plant specimens (gift)

MATHIAS, DR. MILDRED E., Los Angeles: 3 seed samples (gift)

MAURITIUS, DIRECTOR OF AGRICULTURE, Reduit: 25 seed samples (gift)

MCCARTHY, MRS. OMIE, Nome, Alaska: 147 plant specimens (gift)

MICHIGAN, UNIVERSITY OF, Ann Arbor: 1,073 plant specimens (exchange)

MINNESOTA, UNIVERSITY OF, Minneapolis: 3 seed samples (gift)

MISSOURI BOTANICAL GARDEN, St. Louis: plant specimen (gift)

MOORE, GEORGE E., St. Louis: plant specimen (gift)

NATIONAL BOTANIC GARDENS, Kirstenbosch, Union of South Africa: 214 seed samples (exchange)

NATURHISTORISKA RIKSMUSEET, Stockholm: 916 plant specimens (exchange)

NEW YORK BOTANICAL GARDEN, New York: 1,160 plant specimens, 43 photographs (exchange); 50 plant specimens (gift)

NEW ZEALAND, DEPARTMENT OF TOURISTS AND PUBLICITY, Wellington: 22 photographs (gift)

NOGLE, HAROLD, Port Arthur, Texas: 6 wood specimens (exchange)

OKLAHOMA, UNIVERSITY OF, Norman: 7 plant specimens (exchange)

PAKISTAN, MINISTRY OF AGRICULTURE, Karachi: 20 wood specimens (exchange)

PALMER, ERNEST J., Webb City, Missouri: 594 plant specimens (gift)

PENICK, S. B., AND COMPANY, New York: 7 economic specimens (gift)

PIONEER HI-BRED CORN COMPANY, Des Moines: 19 seed samples (gift)

PONCHO, JUAN V., Chicago: 18 plant specimens (gift)

ROYAL BOTANIC GARDENS, Kew, England: 112 plant specimens (exchange)

SCHARLETT, MRS. LAURAMARIE, Norwalk, California: plant specimen (gift)

SCHMIDT, DR. KARL P., Homewood, Illinois: 69 plant specimens (gift)

SELLA, EMIL, Hazelcrest, Illinois: 2 plant specimens (gift)

SHERFF, DR. EARL E., Hastings, Michigan: 512 plant specimens (gift)

SMITH, MRS. ELLEN T., Lake Forest, Illinois: plant specimen (gift)

SOUTHERN METHODIST UNIVERSITY, Dallas: 33 plant specimens (exchange)

STRAUSS, JESSE, Glencoe, Illinois: plant specimen (gift)

SVIKHART, EDWIN G., Chicago: economic specimen (gift)

TEMPLETON, BONNIE C., Los Angeles: 3 seed samples (gift)

TERRITORIAL MUSEUM, Juneau, Alaska: plant specimen (gift)

THIERET, DR. JOHN W., Homewood, Illinois: 79 plant specimens, several economic specimens (gift)

UNITED STATES DEPARTMENT OF AGRICULTURE: 12 photographs, 18 economic specimens (gift)

UNITED STATES NATIONAL MUSEUM, Washington, D.C.: 219 plant specimens (exchange); 315 plant specimens, 3 cryptogamic specimens (gift)

UNIVERSITETETS BOTANISKE MUSEUM, Copenhagen, Denmark: 96 cryptogamic specimens (exchange)

VAUGHAN'S SEED STORE, Chicago: 44 seed samples, plant specimen (gift)

WAITE AGRICULTURAL RESEARCH INSTITUTE, Adelaide, South Australia: 88 plant specimens (exchange)

WOLF, MRS. MARION, Lafayette, Louisiana: 6 plant specimens, 5 economic specimens (gift)

YNTEMA, MRS. L. F., Wadsworth, Illinois: 2 plant specimens (gift)

DEPARTMENT OF GEOLOGY—ACCESSIONS

AMERICAN MUSEUM OF NATURAL HISTORY, New York: specimens of variegated clays of India, cast of *Colosochelys atlas* (open exchange)

ARENBERG, CLAIRE S., AND ALBERT L. ARENBERG, Highland Park, Illinois: necklace containing 95 pearls (gift)

CANRIGHT, DR. JAMES E., Bloomington, Indiana: fossil insect (Palaeodictyoptera)—Indiana (gift)

CARLSON, H. J., Anchorage, Alaska: jar of volcanic ash—Mount Spurr, Alaska (gift)

CARMAN, DR. J. ERNEST, Columbus, Ohio: 1,000 specimens of Lower Devonian fishes, invertebrates, and plants—Ohio (gift)

CHICAGO NATURAL HISTORY MUSEUM: Collected by Dr. Robert H. Denison (Eastern States Paleontological Field Trip, 1956): 75 specimens of Middle Devonian fishes, 300 specimens of Middle Devonian invertebrates—Michigan

Collected by William D. Turnbull and Orville L. Gilpin (Wyoming Paleontological Expedition, 1956): 150 specimens of Eocene mammals, reptiles, and fishes—Wyoming

Collected by Dr. Rainer Zangerl, Dr. Eugene S. Richardson, Jr., and Dr. Robert H. Denison (field trip): 9 specimens of fossil invertebrates—Illinois

CLEVELAND MUSEUM OF NATURAL HISTORY, Cleveland, Ohio: cast of *Dinichthys terreli* (exchange)

DOUGLAS, MRS. WALTER, Chauncey, New York: fossil cycad-bud—Utah (gift)

FEINSTEIN, EDWARD, Chicago: tail of trilobite (*Bumastus* sp. *pygidium*)—Illinois (gift)

FLORIDA GEOLOGICAL SURVEY, Tallahassee: casts of *Merychippus gunter*, *Merychippus westoni*, *Archaeohippus nanus*, *Anchitherium clarencei* (gift)

GEOLOGICAL INSTITUTE OF AMERICA, New York: specimens of sawed natural pearl and sawed cultured pearl (gift)

HEAVY MINERALS COMPANY, Chicago: 5 specimens of beach-sand concentrates—Florida (gift)

HESTON, WILLIAM, Chicago: skull of *Merycoidodon culbertsoni*, skull of *Stylemys*, specimen of limy coquina—South Dakota (gift)

HORBACK, HENRY, Chicago: 2 specimens of marcasite nodules—Illinois (gift)

ILLINOIS STATE MUSEUM, Springfield: occipital region of *Symbos*—Illinois (gift)

KEENER, CHAPLAIN EARL A., New York: 4 fossil fishes (*Mallotus villosus*)—Greenland (gift)

KIRKBY, MR. AND MRS. SAMUEL, Riverside, California: fossil snail—Idaho (gift)

LUNDELIUS, DR. ERNEST, Pasadena, California: collection of fossil mammals—west Australia (gift)

MUSEUM OF COMPARATIVE ZOOLOGY, Cambridge, Massachusetts: 7 casts of fossil mammals (gift)

ROSICLARE LEAD AND FLUORSPAR MINING COMPANY, Rosiclare, Illinois: specimen of fluorite—Illinois (gift)

ROSS, MISS LILLIAN A., Chicago: fossil spider (*Nacekomia rossae*)—Illinois (gift)

SAINT PROCOPIUS COLLEGE, Lisle, Illinois: 37 fossil coral specimens—Michigan (gift)

SHELL DEVELOPMENT COMPANY, Houston: undetermined placoderm plate (rostral?)—Canada (gift)

STANNARD, LEWIS J., Urbana, Illinois: fossil insect-wing—Illinois (gift)

SWANSON, WENDELL B., Chicago: 105 fossil mammals and some turtles—east Australia (gift)

TECHTER, DAVID, Chicago: fossil spider—Illinois (gift)

THOMAS, R. C., Park Forest, Illinois: 20-pound hematite boulder—Wisconsin (gift)

TRANSVAAL MUSEUM, Pretoria, Union of South Africa: 15 casts of fossil hominoids (gift)

TURNER, GEORGE, Chicago: fossil bison-horn—Alaska (gift)

WHITFIELD, DR. AND MRS. ROBERT H., Evanston, Illinois: collection of fossil flora and fauna—Illinois (gift)

WIEBE, MISS MAIDI, Chicago: Pennsylvanian trilobite—Illinois (gift)

WILLIAM J. CHALMERS CRYSTAL FUND: stalactitic goethite—Washington, D.C.; wulfenite—Arizona

WRAY, O. R., Quebec: 20 sand-calcite concretions, diorite specimen with sand-calcite concretion—Canada (gift)

DEPARTMENT OF ZOOLOGY—ACCESSIONS

ADRIAN MARIE O. P., SISTER, Notre Dame, Indiana: 2 fishes—Minnesota and Ohio (gift)

AMERICAN MUSEUM OF NATURAL HISTORY, New York: 3 frogs—Belgian Congo (exchange)

ART INSTITUTE OF CHICAGO, Chicago: 22 bronze miniature animal-figures (gift)

AXTELL, RALPH W., Austin: lizard—Texas (gift)

BATEMAN, ROBERT, Toronto: mammal—Canada (gift)

BENESH, BERNARD, Burrville, Tennessee: 509 insects—Tennessee and Chile (gift)

BIESE, DR. WALTER, Santiago, Chile: 33 lots of sandshells—Chile (gift)

BOGERT, CHARLES M., New York: lizard, 2 salamanders—Mexico (gift)

BOKERMANN, WERNER C. A., São Paulo, Brazil: 7 frogs—Brazil (exchange)

BRAGG, DR. ARTHUR N., Norman, Oklahoma: 22 lots of frog larvae—Oklahoma (gift)

BRITISH MUSEUM (NATURAL HISTORY), London: bird—British Cameroons (exchange); 45 frogs—Africa (exchange)

BRODIE, MISS LAURA, Chicago 32 turtles—South Carolina (gift)

BULLOCK, DR. DILLMAN S., Angol, Chile: 44 reptiles and amphibians—Chile (gift)

CAMIN, DR. JOSEPH, Chicago: 2 insects—Madagascar (gift)

CAMPBELL, J. M., New Haven, Connecticut: 12 birds—New Mexico and Philippines (exchange)

CARNEGIE MUSEUM, Pittsburgh: 96 birds—tropical America (exchange)

CEBALLOS B., ISMAEL, Cuzco, Peru: 15 mammals—Peru (gift)

CHICAGO NATURAL HISTORY MUSEUM
Collected by Dr. Fritz Haas (Caribbean Marine Field Work, 1956): 398 lower invertebrates, lizard—Bimini, Bahamas

Collected by Dr. Robert F. Inger (Borneo Zoological Expedition, 1956): 90 mammals, 4 mammal skeletons, 6 mammal skulls, 374 lots of fishes, 1,404 reptiles and amphibians, turtle skeleton—Borneo

Collected by Celestino Kalinowski (Peru Zoological Expedition, 1956): 9 mammals, 105 insects, 142 landshells—Peru

Collected by C. L. Koch and D. Balfour-Browne (Vernay-Transvaal Museum Expedition to Kuene River and Angola, 1954): 143 beetles—South Africa and Angola

Collected by D. S. Rabor (Philippine Zoological Field Work, 1956): 1,001 birds, 256 reptiles and amphibians, 10 lots of lower invertebrates—Philippines

Collected by Loren P. Woods (Mexican Zoological Field Trip, 1954-55): 7 lots of lower invertebrates—Mexico

Collected by Dr. Rainer Zangerl (Louisiana Sedimentology Field Trip, 1956): 29 mollusks—Lake Borgne, Louisiana

Purchases: 31 lots of shells, 1 pearl oyster, 52 nonmarine shells, 7 lots of mollusks; 21,265 birds, 76 bird eggs; 58 fishes; 471 mammals; 8,828 insects; 442 reptiles and amphibians.

CHICAGO ZOOLOGICAL SOCIETY, Brookfield, Illinois: 3 mammals, 4 birds—various localities (gift)

CINCINNATI, UNIVERSITY OF, Cincinnati: 2 birds—Chile (exchange)

CLARK, DR. GORDON M., College Park, Maryland: 2 insects—Maryland (gift)

CONSTANTINE, DR. D. G., Atlanta, Georgia: 21 bats—California (gift)

DOMERGUE, DR. CHARLES, Tunis, Tunisia: 9 snakes—Tunisia (exchange)

DOTY, DR. MAXWELL S., Honolulu: 181 insects—Oregon (gift)

DRAKE, DR. CARL J., Ames, Iowa: 63 insects—United States, Puerto Rico, and New Caledonia (gift)

DREISBACH, R. R., Midland, Michigan: 6 beetles—Colorado and Michigan (exchange)

DUEVER, MICHAEL, Chicago: rattle-snake—Illinois (gift)

DUNN, MRS. EMMETT REID, Bryn Mawr, Pennsylvania: 458 reptiles and amphibians—Central and South America (gift)

EIGSTI, W. E., Hastings, Nebraska: 28 fleas—Nebraska (gift)

FERNALD, MRS. CHARLES, Chicago: passenger pigeon—North America (gift)

GENERAL BIOLOGICAL SUPPLY HOUSE, Chicago: 8 caecilians—locality unknown (gift)

GERHARD, WILLIAM J., Chicago: 1,036 insects—United States (gift); 2,300 reprints and small separata on true bugs (gift)

GIFFORD, CAMERON E., South Westport, Massachusetts: snake, frog, and [with Loren P. Woods] 4 lots of cave crustacea—Indiana (gift)

GREENHALL, ARTHUR M., Port-of-Spain, Trinidad: fish, 21 snakes—Trinidad (gift)

GREGG, RICHARD T., Baton Rouge, Louisiana: 84 fishes—Mexico (gift)

GRES, CARLOTA, PRINCESS SIGISMUND OF PRUSSIA, Barranca, Costa Rica: snake—Costa Rica (gift)

GROBMAN, DR. ARNOLD B., Gainesville, Florida: 2 salamanders—Virginia (gift)

GROVE AVENUE SCHOOL, Barrington, Illinois: bird—Illinois (gift)

GROW, RAYMOND, Gary, Indiana: 4 birds—Indiana (gift)

GUIMARÃES, DR. LINDOLPHO, São Paulo, Brazil: 14 batflies—Brazil and United States (gift)

HAND, MISS LAVERNE, Chicago: 8,000 lots of shells—worldwide (gift)

HANSON, E. J., Lawrence, Kansas: 2 insects—Utah (gift)

HAWAII, BOARD OF COMMISSIONERS OF AGRICULTURE AND FORESTRY, BUREAU OF PEST CONTROL, Honolulu: 4 beetles—Africa, Central America, and Fiji Islands (exchange)

HEETHER, C. E., Skokie, Illinois: fresh-water clam—Illinois (gift)

HOLUB, DR. HANS, Kalimantan-Barat, Indonesia: lot of apple-snails, 17 reptiles and amphibians, 3 fishes—Indonesia (gift)

HOOGSTRAAL, HARRY, Cairo, Egypt: 1,075 mammals, 467 reptiles and amphibians, 156 birds, 80 fishes, 3 insects—Egypt, Kenya, Uganda, Tanganyika, Sudan, and Afghanistan (gift)

HOWDEN, DR. HENRY, Knoxville, Tennessee: 5 beetles—United States and Mexico (gift)

ILLINOIS, UNIVERSITY OF, MUSEUM OF NATURAL HISTORY, Urbana: 43 reptiles and amphibians—Mexico and United States (exchange)

INSTITUT ROYAL DES SCIENCES NATURELLES DE BELGIQUE, Brussels: 7 reptiles and amphibians—Brazil, Belgian Congo, Europe (exchange); 3 beetles—New Caledonia (exchange)

IRAQ NATURAL HISTORY MUSEUM, Baghdad: jackal skeleton—Iraq (gift)

JACOBSON, MORRIS K., Rockaway, New York: 14 inland shells—Peru (gift)

KLAPENBACH, MIGUEL A., Montevideo, Uruguay: 83 landshells—Brazil (gift)

KOCH, KARL LUDWIG, Frankfurt-am-Main, Germany: 4 snakes, 7 lizards—Spain (exchange)

KRAUSS, N. L. H., Honolulu: 5 lizards—Tongo Island and Phoenix Island (gift); 2 frogs—Mexico (gift)

KREKELER, DR. CARL, Valparaiso, Indiana: 20 cave beetles—Indiana and Kentucky (gift)

LEACH, E. R., Piedmont, California: 22 beetles—California (gift)

LEVY, SEYMOUR H., Tucson, Arizona: lizard—Illinois (gift); bird—Texas (gift)

LINCOLN PARK ZOO, Chicago: black bear—North America (gift)

LIST, DR. JAMES, Chicago: 3 worm-snakes—United States (exchange)

LOWRIE, LIEUTENANT COMMANDER DONALD C., FPO, San Francisco: 41 reptiles and amphibians—Ryukyu Islands (gift); 5 mammals—Okinawa (gift)

McMILLAN, JAMES G., Winnetka, Illinois: insect—Illinois (gift)

MERTZ, DAVID, Chicago: 30 snakes—Ohio and Ontario (gift)

MICHIGAN, UNIVERSITY OF, MUSEUM OF ZOOLOGY, Ann Arbor: 514 lots of

lower invertebrates—Canada and New Hebrides (gift)

MINTON, DR. SHERMAN, Indianapolis: 111 reptiles and amphibians (gift)

MOYER, JACK T., Hamilton, New York: 2 mammals, 193 birds—Japan and Korea (gift)

MUSEO ARGENTINO DE CIENCIAS NATURALES "BERNARDINO RIVADIVIA," Buenos Aires: 15 mammals—Argentina (gift)

MUSEO DE HISTORIA NATURAL, Montevideo, Uruguay: 3 lots of fresh-water clams—Uruguay (exchange)

MUSEUM AND ART GALLERY, Durban, Natal, Union of South Africa: bird—South Africa (gift)

MUSEUM NATIONAL D'HISTOIRE NATURELLE, Paris: 26 frogs—Africa (exchange)

NATURHISTORISCHES MUSEUM BASEL, Basel, Switzerland: frog—Angola (exchange)

NECKER, MR. AND MRS. WALTER L., Chesterton, Indiana: 21 lots of fresh-water and marine crustacea—United States and Mexico (gift)

NETTERSTRÖM, R., Östersund, Sweden: 4 mammals—Sweden (exchange)

NICEFORO MARIA, HERMANO, Bogotá, Colombia: 194 reptiles and amphibians—Colombia (gift)

NICHOLAS, VESTAL R., Kokomo, Indiana: 12 fresh-water clams—Indiana (gift)

OHIO STATE UNIVERSITY, Columbus: 13 beetles—United States (exchange)

OLD, WILLIAM E., JR., Norfolk, Virginia: 11 lots of landshells—Virginia (gift)

PARK, DR. ORLANDO, Evanston, Illinois: 12,604 insects—worldwide (mostly United States) (gift)

PAXSON, DILLWYN, Fort Smith, Arkansas: 2 sturgeon fry—Wisconsin (gift)

PEARSON, MRS. HARRY C., Indianola, Iowa: African-elephant hide—Africa (gift)

PILSBRY, DR. HENRY A., Philadelphia: fresh-water clam—Mexico (gift)

RAND, MRS. AUSTIN L., Chesterton, Indiana: 33 inland mollusks—Tennessee (gift)

RANEY, DR. EDWARD C., Ithaca, New York: 2 fishes—North Carolina (gift)

REED, DR. CHARLES A., Chicago: mammal—Washington (gift)

ROGERS, MRS. R. J., Chicago: land-shell—Miyoko Island, Ryukyu Islands (gift)

SEGAL, SIMON, Chesterton, Indiana: weasel—Illinois (gift)

SELANDER, DR. RICHARD B., Urbana, Illinois: 466 beetles—western United States and Mexico (gift)

SNOW, DR. WILLIAM, Wilson Dam, Alabama: 6 beetles—Alabama (exchange)

STITH, COLONEL RICHARD B., Lacon, Illinois: trumpeter swan—North America (gift)

TANNER, DR. WILMAR W., Provo, Utah: 2 lizards—Utah (exchange)

TEXAS, UNIVERSITY OF, Dallas: 7 fishes—Texas (gift)

TRAPIDO, DR. HAROLD, Poona, India: mammal, 471 reptiles and amphibians—Panama (gift)

TRAYLOR, MISS NANCY, Winnetka, Illinois: crayfish, fish—Illinois (gift)

UNITED STATES ARMY, FOURTH ARMY MEDICAL CENTER, Fort Sam Houston, Texas: 4 bats—United States (gift)

UNITED STATES FISH AND WILDLIFE SERVICE, Pascagoula, Mississippi: 417 fishes, 10 lots of lower invertebrates—Caribbean, Gulf of Mexico, and Atlantic Ocean (gift); and Seattle, Washington: 3 fishes—North Pacific (gift)

UNITED STATES NATIONAL MUSEUM, Washington, D.C.: giant deep-sea isopod—Tortugas Islands and Florida (exchange)

WALSH, FRASER, care of APO, San Francisco: 9 birds, 3 mammals, 33 insects—Formosa (gift)

WEYRAUCH, DR. WOLFGANG, Lima, Peru: 36 shells—Peru (exchange); 57 shells—Peru (gift)

WIEBE, MISS MAIDI, Maywood, Illinois: 2 lots of fresh-water mollusks—Wisconsin (gift)

WILLIAMS, LOUIS O., Tegucigalpa, Honduras: salamander—Costa Rica (gift)

WISCONSIN, UNIVERSITY OF, Madison: bird—Wisconsin (exchange)

WOODS, LOREN P., Homewood, Illinois: 3 fishes and [with Cameron E. Gifford] 4 lots of cave crustacea—Indiana (gift)

WYATT, ALEX K., Chicago: 50 butterflies and moths—Mexico (gift)

YOKOYAMA, DR. KATSUYUKI, Chicago: 5 salamanders—Illinois (gift)

DIVISION OF PHOTOGRAPHY—ACCESSIONS

CHICAGO NATURAL HISTORY MUSEUM: enlargements, 200 lantern slides, 290
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CORONET FILMS, Chicago: "China:
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INTERNATIONAL FILM BUREAU,
Chicago—"Putting Animals in Groups"
(500-foot color-sound film)—purchase
FILM ASSOCIATES, Los Angeles—
"Animal Habitats" (400-foot color-
sound film)—purchase

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Zoology, Tulane University of
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Hoogstraal, Harry, care of American
Embassy, Cairo, Egypt
Voth, Dr. Paul D., Department of
Botany, University of Chicago,
Chicago
Izutsu, Gafu, Aburanokoji-Rokujyo,
Kyoto, Japan
Wegner, Dr. Richard N., Director,
Anatomisches Institut, Universität
Greifswald, Greifswald, Germany
Kobayashi, Keisuke, Shinohara-
kitamachi, Nada-ku (Kokko),
Kobe, Japan
Weissmann, Herman, Chicago
Laughlin, Kendall, Chicago
Wilson, Archie F., Short Hills,
New Jersey
Lindsay, Alexander, Oak Park, Illinois

Representative Accessions

(Acquired by Gift, Exchange, or Purchase)

BOOKS

- Adams, Harriet Isabel, *Wild flowers of the British Isles* (1907)
Aldrovandi, Ulisse, *Quadrupedum omnium bisulcorum historia* (1621)
Arkell, William Joscelyn, *Jurassic geology of the world* (1956)
Aubé, Charles, *Monographia pselaphiorum, cum synonymia extricata* . . . (1834)
Barret, Charles, ed., *The Pacific, ocean of islands* [1950?]
Bolk, Louis, *Odontologische Studien*, 3 v. (1913–19)
Breuning, Stephan, *Monographie der Gattung Carabus L.*, 7 pts. (bound in 1 v.) (1932–37)
British Museum (Natural History). Department of Zoology. *Catalogue of the lizards in the British Museum (Natural History)*. 2nd ed. 3 v. (1885–87)
Clarke, Charles Baron, *Comnrelynaceae et cyrtandraceae Bengalenses* (1874)
Christensen, Carl, *Den danske botaniks historie*, 2 v. in 3 pts. (1924–26)
Cuvier, Georges, baron, and Achille Valenciennes, *Histoire naturelle des poissons* 1829–46)
Deecke, Wilhem, *Die Fossilisation* (1923)
Eichwald, Eduard, *Fauna Caspio-Caucasia* (1841)
Ferris, Gordon Floyd, *Atlas of scale insects*, 6 v. (1937–53)
Fries, Bengt Fredrik, C. V. Ekström, and Carl Jacob Sundevall, *A history of Scandinavian fishes*, 2 v. and atlas of 53 colored plates (1892–95)
Goldfuss, Georg August, *Vergleichende Naturbeschreibung der Säugethiere* (1809)
Hagmeier, Arthur, and Clemens Künne, *Die Nahrung der Meerestiere* (1950)
Handbuch der Seefischerei Nordeuropas, v. 1 (1951), v. 2 (1936)
Hart, Henry Chichester, *Some account of the fauna and flora of Sinai* . . . (1891)
Heyne, Alexander, and Otto Taschenberg, *Die exotischen Käfer in Wort und Bild* (1908)
Jordan, Hermann Jacques, *Allgemeine vergleichende physiologie der Tiere* (1929)
Latreille, Pierre André, *Familles naturelles du Règne animal* . . . (1825)
Linnean Society of London, *Lectures on the development of taxonomy* . . . 1948–1949, and *lectures on the practice of botanical and zoological classification, 1949–1950* (1950–51)
Mander, Linden A., *Some dependent peoples of the South Pacific* (1954)
Milne-Edwards, Henri, *Elémens de zoologie ou leçons sur l'anatomie, la physiologie, la classification et les moeurs des animaux*, 4 v. (1840–43)
Nida, Eugene Albert, *Customs and cultures* (1954)
Oliver, Douglas L., *A Solomon Island society* (1955)
Phillipps, William John, *Carved Maori houses* (1955)
Pritchard, James Bennett, *Ancient Near Eastern texts relating to the Old Testament* (1955)
Romer, Alfred Sherwood, *Vertebrate paleontology*, 2nd ed. (1945)
Rupertsberger, Mathias, *Die biologische Literatur über die Käfer Europas von 1880 an*. (1894). *Biologie der Käfer Europas* . . . (1880). 2 v.
Schlesier, Erhard, *Die Erscheinungsformen des Männerhauses und das Klubwesen in Mikronesien* (1953)
Weigelt, Johannes, *Rezente Wirbeltierleichen und ihre paläobiologische Bedeutung* (1927)
Wertheim, Willem Frederik, *Indonesian society in transition: a study of social change* (1956)
Wingert, Paul Stover, *Art of the South Pacific islands* (1953)
———, *The sculpture of Negro Africa* (1950)

SERIALS

- Anthropological Society of Hawaii. *News from the Pacific* (1956—)
Baileya: a quarterly journal of horticultural taxonomy. v. 1— (1953—)
Bulletin Volcanologique. Série II. v. 1— (1937—)
Fauna SSSR. N.S. v. 12 (1937); v. 22 (1940); v. 24 (1941); v. 25 (1940); v. 26 (1941); v. 47 (1951); v. 53 (1952); v. 60 (1955); v. 63 (1956)
Fauna van Nederland. v. 1— (1927—)
Oesterreichische botanische zeitschrift. v. 15, 39, 40, 46–55 (1865, 1889, 1890, 1896–1905)
Revue française d'entomologie. t. 21— (1954—)
Royal Entomological Society of London. *Transactions*. v. 96— (1946—)
Schweizer Entomologischer Anzeiger. v. 1–5 (1922–26)
Société Royale entomologique de Belgique, Brussels. *Bulletin et Annales*. v. 81— (1945—)
South Pacific. (1956—)
Die Tropische Natur. v. 7, 11, 18–24 (1919–35)
Trust Territory of the Pacific Islands. *Micronesian Monthly*. (1956—)
The weekly entomologist. 3v. (1862–63)
Wiedemann, Christian Rudolph Wilhelm, ed. *Archiv für zoologie und zootomie*. v. 1–4 (1800–1805)
Zeitschrift für Lepidopterologie. v. 1–3 (1950–55)

EAST ASIAN COLLECTION—CHINESE (SELECTED ACCESSIONS)

COLLECTED WORKS

- Chang Yüan-chi and others, *Po-na pên êrh-shih-ssu shih* [the Po-na edition of the 24 Standard Histories, published as the history section of the Ssü-pu Ts'ung-k'an], 820 v. (1930–37)
Republic of China. Ministry of Education [publisher and donor], *Hsien-tai kuo-min chi-pên chih-shih* [a collection of over 200 volumes, in three series, covering a wide variety of topics relevant to Chinese history and culture] (1952–54)

ANTHROPOLOGY

- Academia Sinica (Chung-kuo K'o-hsüeh Yüan), *Huihsien fa-chüeh pao-kao* [report of excavations at Huihsien in Honan Province] (1956)
Ch'ang, Jên-hsia, *Han-hua yi-shu yen-chiu* [a study of Han-period tomb art] (1955)
Chao Wan-li, *Han Wei Nan-pei-ch'ao mu-chih chi-chieh* [an annotated collection of stone inscriptions from the Han, Wei, and Northern and Southern Dynasties periods] (1956)
Ch'in T'ing-yü, *Chung-kuo ku-tai t'ao-su yi-shu* [illustrated catalogue of earthenware figurines from the periods Han to T'ang] (1956)
Ch'üan-kuo chi-pên chien-shê kung-ch'êng chung ch'u-t'u wên chan-lan t'u-lu [illustrated catalogue of an exhibition of antiquities unearthed in the course of national construction work] (1955)
Kuo Jo-yü, *Mo-yin chuan-hua* [illustrations of tomb bricks from Chints'un, near Loyang, and representative of the Warring States period] (1954)
Li Hsin-nan, *Ming chin* [reproductions of figured satins of the Ming period] (1955)
Liu K'ai-ch'ü, *Chung-kuo ku-tai tiao-su chi* [illustrations of sculptured and modeled figurines from the periods Han to Ming] (1955)
Pei Wên-chung, *Chung-kuo shih-ch'i shih-tai tê wên-hua* [the paleolithic and neolithic in China] (1955)

- Peking Historical Museum, *Chung-kuo ku-tai ch'i-ch'i t'u-an hsüan* [selected designs from the lacquerware found in tombs at Ch'angsha, Hunan, and representative of the State of Ch'u during the Warring States period] (1955)
 Wên Yu, *Ku t'ung-ku t'u-lu* [illustrated catalogue of ancient bronze drums] (1954)
 Yin Huan-chang, *Hua-tung hsin shih-ch'i shih-tai yi-chih* [neolithic sites in eastern China] (1955)

MAPS AND LOCAL HISTORIES

- Chang An-p'u, *Kuangtung yü-ti ch'üan-t'u* [a comprehensive atlas of Kuangtung Province] (1898)
 Ch'ên Pai-tao, *Tungkuan-hsien chih* [the local history of Tungkuan-hsien in Kuangtung Province] (1921)
 Hsi Pao-kan and others, *Foshan-chung-yi chih* [the local history of Foshan-chung-yi district in Kuangtung Province] (1923)

EAST ASIAN COLLECTION—JAPANESE (SELECTED ACCESSIONS)

REFERENCE WORKS

- Dai-hyakka jiten* [an encyclopedic dictionary]
Dai Nippon jimmei jisho [a Japanese biographical dictionary in five volumes] (1937)
Nippon chimei dai-jiten [a Japanese geographical dictionary in six volumes] (1939)

PERIODICALS

- Representative anthropological periodicals from the Chinese mainland, Taiwan, Japan, Hongkong, Indochina, and the Philippines

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 Embree, J. W., Jr.
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 Faherty, Roger
 Faithorn, Walter E.
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 Fuller, Judson M.
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 Kirkland, Mrs.
 Weymouth
 Kirst, Lyman R.
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 Kitzelman, Otto
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 Klinetop, Mrs. Charles W.
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 Paula
 Knight, Howard
 Knopf, Andrew J.
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 Koch, Raymond J.
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 Kochs, August
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 Elizabeth Thompson
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 Kotin, George N.
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 Kraft, Norman
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 Oberfelder, Walter S.

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 Tenney, Henry F.
 Terker, Sam
 Terrill, Dean
 Teter, Park
 Thatcher, Dr. Harold W.
 Thiele, George C.
 Thillens, Melvin
 Thomas, Miss Martha
 Thompson, A. M.
 Thompson, H. Hoyt
 Thompson, Dr. John R.
 Thompson, Lang S.
 Thompson, Dr. W. V.
 Thorek, Dr. Philip
 Thoren, Mrs. J. N.
 Thoresen, H. B.
 Thorson, Reuben
 Thrasher, Dr. Irving D.
 Thullen, Henry M.
 Tiberius, George
 Tiekens, Theodore
 Tilden, Merrill W.
 Tillotson, J. W.
 Tinsley, Dr. Milton
 Tippens, Mrs. Albert H.
 Todd, Mrs. E. L.
 Tolpin, Dr. Samuel
 Tonk, Percy A.
 Tonn, George
 Toomin, Philip R.
 Topaz, Martin
 Topolinski, J. J.
 Torff, Selwyn H.
 Torgerson, Ray G.
 Towns, R. E.
 Trace, Master David R.
 Trace, Master Edward R.
 Trace, Dr. Herbert D.
 Trace, Master Peter A.
 Tracy, George C.
 Tracy, Norman H.
 Tracy, Dr. Paul C.
 Tracy, T. J.
 Tracy, Wheeler
 Tracy, Wilfred
 Trager, D. C.
 Trainor, H. J.
 Traut, Bernard H.
 Travelletti, Bruno L.
 Traver, George W.
 Travis, Eugene C.
 Treadwell, George P.

ANNUAL MEMBERS (CONTINUED)

Treffeisen, Gustave
Tresley, Dr. Ira J.
Triggs, Warren
Trimarco, Ralph R.
Triner, Joseph
Troeger, Louis P.
Trumbull, William M.
Tubutis,
Walter Stanley, Jr.
Turgrimson, Charles D.
Turner, Dr. Herbert A.
Turner, Oliver S.
Turney, Kenneth R.
Turney, Newton E.
Turow, Dr. David D.
Tuteur, Charles
Tuteur, Irving M.
Tyler, Mrs. Ivan L.
Tyrrell, Miss Frances

Ughetti, John B.
Uhlmann, Richard F.
Ullmann, S. E.
Ultsch, W. Lewis
Urbain, Jules, Jr.
Urbain, Leon F.
Urban, Andrew
Uretz, Daniel A.
Urick, Delbert N.
Urnes, Dr. M. P.
Ushijima, Mrs. Ruth

Vail, Mrs. Daniel M.
Vail, Donald P.
Vail, J. Dean, Jr.
Vale, Mrs. Murray
Valentine, Mrs.
Joseph L.
Van Buskirk, M. G.
Vance, Dr. Graham A.
Vance, Patricia
Vance, S. M.
Vanderkloot, Dr. Albert
Vander Kloot, Nicholas J.
Vander Ploeg, Frank
Van Deventer, William E.
Van Duzer, John B.
Van Dyk, S. A.
Van Etten, Floyd G.
Van Gerpen, George
Van Kampen, A. H.
Van Kirk, Mrs. R. D.
Van Moss, J. H., Jr.
Van Natta, V. R.
Van Ness, A. L.
Van Nice, Errett
Van Stanten, James
Van Schaick, Mrs.
Ethel R.
Van Swearingen, Guy H.
Varley, John S.

Varty, Leo G.
Vasalle, Master David
Vasalle, Rudolph A.
Vaughan, Alan W.
Vaughan, Norman
Velvel, Charles
Velvel, H. R.
Venetucci, Pasquale
Venrick, Mrs. Charles F.
Verhaag, Dr. Joseph E.
Vernon, John T.
Ver Nooy, Miss Winifred
Vick, Maurice B.
Victorine, Vernon E.
Vihon, Charles H.
Vilsoet, William
Voltz, D. H.
von Bonin, Dr. Gerhardt
Von Gehr, George
Von Ohlen, Floyd E.
Voytech, Charles F.
Vyse, T. A. E.

Wach, Dr. Edward C.
Wachter, Frederick J.
Wacker, Frederick G., Jr.
Wadsworth, Charles
Wagner, Mrs. David H.
Wagner, John A.
Wagner, Richard
Wagner, Samuel G.
Wagnum, James N.
Wahl, Orlin I.
Wald, William
Waldeck, Herman
Waldie, Benjamin D.
Waldman, Dr. Albert G.
Waldner, Arthur L.
Waldo, C. Ives, Jr.
Walgren, Lawrence C.
Walker, Dr. Alfred O.
Walker, Frank R.
Walker, Mrs. G. R.
Walker, Mrs. India A.
Walker, Reno R.
Walker, Wendell
Wall, Dr. Frank J.
Wallenstein, Sidney
Waller, Percy H.
Waller, William, Jr.
Wallerstein, David B.
Wallgren, Eric M.
Wallingford, Donald H.
Walsh, Donald J.
Walters, Gary G.
Walthouse, William F.
Waltman, C. E.
Walz, John W.
Wanger, David E., Jr.
Warady, Dr. Seymore C.
Warde, Frederick A.

Wardwell, H. F.
Ware, Mrs. Robert R.
Ware, Mrs. Thomas M.
Ware, Willis C.
Warman, Winfield C.
Warner, Mason
Warton, Frank R.
Washburn, Dr.
Kenneth C.
Wasson, Mrs. Isabel B.
Wasson, Theron
Waterfield, John R.
Waterman, Mrs. Alex H.
Waterstreet, W. Neal
Watling, John
Watson, D. R.
Watson, John A.
Watt, Andrew J.
Watt, Howard D.
Watt, Richard F.
Watts, Amos H.
Watts, G. W.
Weatherby, George W.
Weathers, Everett A.
Weaver, John M.
Webb, Dr. Edward F.
Webber, Harold H.
Weber, James E.
Weber, John J.
Weber, Miss Laura M.
Weber, Warren J.
Webster, Dr. Augusta
Webster, Frederick F.
Webster, N. C.
Weeks, Arthur G.
Weeks, Harrison S.
Weeks, Kenneth L.
Wegrzyn, Dr. John T.
Wegrzyn, Joseph
Weidert, William C.
Weigle, Mrs. Maurice
Weil, Mrs. Carl H.
Weill, Leonard D.
Weiner, Aaron B.
Weiner, Charles
Weinreich, C. F.
Weinress, S. J.
Weir, Paul
Weisbrod, Maxfield
Weiss, Louis J.
Weitman, W. E.
Weitzel, Carl J.
Wells, D. P.
Wells, Mrs. John E.
Welsh, Vernon M.
Wenholz, Walter W.
Wenninger, William C.
Werrenrath, Reinald, Jr.
Wessling, Richard
West, James D.
West, Richard H.

ANNUAL MEMBERS (CONTINUED)

Westbrook, Charles H.	Willy, Gustave J.	Wright, George L.
Wetherell, Warren	Wilson, Allen	Wright, Miss Margaret J.
Wetmore, Horace O.	Wilson, Allen B.	Wrightson, William F.
Wetten, Walton	Wilson, Percival C.	Wrisley, George A.
Weyforth, B. Stuart, Jr.	Wiltsee, Herbert	Wulf, Miss Lydia
Weymouth, Ralph E.	Windchy, Mrs.	Wyatt, Harry N.
Whalen, Richard H.	Frederick O.	Wybel, L. E.
Whalen, William Patrick	Winkenweder, V. O.	Yager, Richard Sidney
Whall, Arthur L.	Winsberg, Herbert H.	Yarnall, Frank H.
Wheary, Warren	Winston, Farwell	Yates, John E.
Wheeler, Mrs. Seymour	Winston, Sam	Yates, P. L.
Wheeler, W. L.	Winterbotham, John R.	Yates, T. L.
Whipple, Charles J., Jr.	Wirth, J. W.	Yavitz, Sidney M.
Whipple, Gaylord C.	Wiseman, William P.	Yellin, Morris
Whiston, Frank M.	Witte, Lester	Yeoman, George W.
Whiston, Jerome P.	Wlocholl, Arthur	Yesnick, Dr. Louis
White, George R.	Wojnarowsky, Dr. Emilia	Yohe, C. Lloyd
White, Marshall	Wojteczko, Stanley	Yonkers, Edward H.
White, Mrs. Nelson C.	Wolbach, Murray, Jr.	Young, C. S.
White, Philip M.	Wolf, Albert M.	Young, Dr. Donald R.
Whitelock, John B.	Wolf, C. W.	Young, George B.
Whitney, Jack M., II	Wolf, Morris E.	Young, J. L.
Whitney, Lafeton	Wolf, Orrin E.	Youngberg, Arthur C.
Whitson, Thomas M.	Wolff, Frank C.	Youngren, W. W.
Wible, R. R.	Wolff, Oscar M.	Yust, Walter
Wickersham, Mrs. Lucille	Wood, Alexander M.	Zadek, Milton
Wieland, John	Wood, C. A.	Zatz, Sidney R.
Wies, H. M.	Wood, Harold F.	Zeisler, Dr. Ernest B.
Wilby, A. C.	Wood, Kenward T.	Zeitlin, Samuel E.
Wild, Lydon	Wood, Truman	Zelinsky, Mrs. S. F.
Wilder, E. P., Jr.	Wood, William A.	Zeller, Charles B.
Wiles, Bradford	Wood, Mrs. William J.	Zimmer, Harry L.
Wiles, Mrs. Russell	Woodall, Lloyd	Zimmerman, Austin M.
Wilhelm, Dr. Emanuel C.	Woods, Dr. A. W.	Zimmerman, Carl
Wilhite, James A.	Woodson, William T.	Zimmerman, Dr.
Wilkes, Mrs. R. M.	Woolard, Francis C.	Harold W.
Willard, Nelson W.	Woollett, Mrs. Jean	Zimmerman, Otto H.
Willett, Howard L., Jr.	Woolpy, Max	Zimmermann, Frank O.
Williams, Albert W.	Workman, S. L.	Zimmermann, Mrs. P. T.
Williams, Bennett	Worth, Dr. Theodore D.	Zitzewitz, Arthur F.
Williams, Harry J.	Worthington, La Grange	Zitzewitz, Mrs. W. R.
Willis, Amos G.	Wray, Miss Carolyn R.	Zoll, William F.
Willis, George H.	Wreath, Robert L.	Zwiener, Kenneth V.
Willis, Ivan L.	Wright, Dr. F. Howell	

DECEASED 1956

Adams, Hugh R., Jr.	Hargreaves, Thomas H.	Nikopoulos, George A.
Badgerow, Harve Gordon	Herrick, Elton A.	Ochsner, Dr. Edward H.
Barrett, Miss Adela	Hough, William J.	Ossendorf, Dr. K. W.
Blatchford, Edward W.	Hurley, Raymond J.	Perlstein, Mrs. Harris
Bradshaw, Robert Y.	Jensen, George P.	Plummer, Daniel C.
Burgee, Joseph Z.	Johnson, Bert	Redding, George H.
Cameron, John W.	Keeney, Frank P.	Rothschild, Martin
Carroll, Martin F.	Kennedy, J. H.	Slifka, George C.
Clizbe, Mrs. F. O.	Leeds, David L.	Sollitt, Mrs. Ralph T.
Collins, Mrs. Frank P.	Long, Albert S., Jr.	Weiss, Alexander
Curtis, John G.	Lozins, Bert	Woodside, John T.
Fisher, William E.	Naylor, William F., Jr.	
Fraser, Forrest L.		

Articles of Incorporation

STATE OF ILLINOIS

DEPARTMENT OF STATE

WILLIAM H. HINRICHSSEN, *Secretary of State*

TO ALL TO WHOM THESE PRESENTS SHALL COME, GREETING:

Whereas, a Certificate duly signed and acknowledged having been filed in the office of the Secretary of State, on the 16th day of September, A.D. 1893, for the organization of the COLUMBIAN MUSEUM OF CHICAGO, under and in accordance with the provisions of "An Act Concerning Corporations," approved April 18, 1872, and in force July 1, 1872, and all acts amendatory thereof, a copy of which certificate is hereto attached.

Now, therefore, I, William H. Hinrichsen, Secretary of State of the State of Illinois, by virtue of the powers and duties vested in me by law, do hereby certify that the said COLUMBIAN MUSEUM OF CHICAGO is a legally organized Corporation under the laws of this State.

In Testimony Whereof, I hereto set my hand and cause to be affixed the Great Seal of State. Done at the City of Springfield, this 16th day of September, in the year of our Lord one thousand eight hundred and ninety-three, and of the Independence of the United States the one hundred and eighteenth.

W. H. HINRICHSSEN,
Secretary of State.

[SEAL]

TO HON. WILLIAM H. HINRICHSSEN,

SECRETARY OF STATE:

SIR:

We, the undersigned citizens of the United States, propose to form a corporation under an act of the General Assembly of the State of Illinois, entitled "An Act Concerning Corporations," approved April 18, 1872, and all acts amendatory thereof; and that for the purposes of such organization we hereby state as follows, to-wit:

1. The name of such corporation is the "COLUMBIAN MUSEUM OF CHICAGO."

2. The object for which it is formed is for the accumulation and dissemination of knowledge, and the preservation and exhibition of objects illustrating Art, Archaeology, Science and History.

3. The management of the aforesaid museum shall be vested in a Board of FIFTEEN (15) TRUSTEES, five of whom are to be elected every year.

4. The following named persons are hereby selected as the Trustees for the first year of its corporate existence:

Edward E. Ayer, Charles B. Farwell, George E. Adams, George R. Davis, Charles L. Hutchinson, Daniel H. Burnham, John A. Roche, M. C. Bullock, Emil G. Hirsch, James W. Ellsworth, Allison V. Armour, O. F. Aldis, Edwin Walker, John C. Black and Frank W. Gunsaulus.

5. The location of the Museum is in the City of Chicago, County of Cook, and State of Illinois.

(Signed)

George E. Adams, C. B. Farwell, Sidney C. Eastman, F. W. Putnam, Robert McCurdy, Andrew Peterson, L. J. Gage, Charles L. Hutchinson, Ebenezer

Buckingham, Andrew McNally, Edward E. Ayer, John M. Clark, Herman H. Kohlsaat, George Schneider, Henry H. Getty, William R. Harper, Franklin H. Head, E. G. Keith, J. Irving Pearce, Azel F. Hatch, Henry Wade Rogers, Thomas B. Bryan, L. Z. Leiter, A. C. Bartlett, A. A. Sprague, A. C. McClurg, James W. Scott, Geo. F. Bissell, John R. Walsh, Chas. Fitzsimmons, John A. Roche, E. B. McCagg, Owen F. Aldis, Ferdinand W. Peck, James H. Dole, Joseph Stockton, Edward B. Butler, John McConnell, R. A. Waller, H. C. Chatfield-Taylor, A. Crawford, Wm. Sooy Smith, P. S. Peterson, John C. Black, Jno. J. Mitchell, C. F. Gunther, George R. Davis, Stephen A. Forbes, Robert W. Patterson, Jr., M. C. Bullock, Edwin Walker, George M. Pullman, William E. Curtis, James W. Ellsworth, William E. Hale, Wm. T. Baker, Martin A. Ryerson, Huntington W. Jackson, N. B. Ream, Norman Williams, Melville E. Stone, Bryan Lathrop, Eliphalet W. Blatchford, Philip D. Armour.

STATE OF ILLINOIS }
 COOK COUNTY } ss.

I, G. R. MITCHELL, a NOTARY PUBLIC in and for said County, do hereby certify that the foregoing petitioners personally appeared before me and acknowledged severally that they signed the foregoing petition as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this 14th day of September, 1893.

G. R. MITCHELL,

[SEAL]

NOTARY PUBLIC, COOK COUNTY, ILL.

CHANGE IN ARTICLE 1

Pursuant to a resolution passed at a meeting of the corporate members held the 25th day of June, 1894, the name of the COLUMBIAN MUSEUM was changed to FIELD COLUMBIAN MUSEUM. A certificate to this effect was filed June 26, 1894, in the office of the Secretary of State for Illinois.

CHANGE IN ARTICLE 1

Pursuant to a resolution passed at a meeting of the corporate members held the 8th day of November, 1905, the name of the FIELD COLUMBIAN MUSEUM was changed to FIELD MUSEUM OF NATURAL HISTORY. A certificate to this effect was filed November 10, 1905, in the office of the Secretary of State for Illinois.

CHANGE IN ARTICLE 3

Pursuant to a resolution passed at a meeting of the corporate members held the 10th day of May, 1920, the management of FIELD MUSEUM OF NATURAL HISTORY shall be invested in a Board of TWENTY-ONE (21) TRUSTEES, who shall be elected in such manner and for such time and term of office as may be provided for by the By-Laws. A certificate to this effect was filed May 21, 1920, in the office of the Secretary of State for Illinois.

CHANGE IN ARTICLE 1

Pursuant to a resolution passed at a meeting of the corporate members held the 15th day of November, 1943, the name of FIELD MUSEUM OF NATURAL HISTORY was changed to CHICAGO NATURAL HISTORY MUSEUM. A certificate to this effect was filed November 23, 1943, in the office of the Secretary of State for Illinois.

Amended By-Laws

DECEMBER, 1945

ARTICLE I

MEMBERS

SECTION 1. Members shall be of twelve classes, Corporate Members, Honorary Members, Patrons, Corresponding Members, Benefactors, Contributors, Life Members, Non-Resident Life Members, Associate Members, Non-Resident Associate Members, Sustaining Members, and Annual Members.

SECTION 2. The Corporate Members shall consist of the persons named in the articles of incorporation, and of such other persons as shall be chosen from time to time by the Board of Trustees at any of its meetings, upon the recommendation of the Executive Committee; provided, that such person named in the articles of incorporation shall, within ninety days from the adoption of these By-Laws, and persons hereafter chosen as Corporate Members shall, within ninety days of their election, pay into the treasury the sum of Twenty Dollars (\$20.00) or more. Corporate Members becoming Life Members, Patrons or Honorary Members shall be exempt from dues. Annual meetings of said Corporate Members shall be held at the same place and on the same day that the annual meeting of the Board of Trustees is held.

SECTION 3. Honorary Members shall be chosen by the Board from among persons who have rendered eminent service to science, and only upon unanimous nomination of the Executive Committee. They shall be exempt from all dues.

SECTION 4. Patrons shall be chosen by the Board upon recommendation of the Executive Committee from among persons who have rendered eminent service to the Museum. They shall be exempt from all dues, and, by virtue of their election as Patrons, shall also be Corporate Members.

SECTION 5. Any person contributing or devising the sum of One Hundred Thousand Dollars (\$100,000.00) in cash, or securities, or property to the funds of the Museum, may be elected a Benefactor of the Museum.

SECTION 6. Corresponding Members shall be chosen by the Board from among scientists or patrons of science residing in foreign countries, who render important service to the Museum. They shall be elected by the Board of Trustees at any of its meetings. They shall be exempt from all dues and shall enjoy all courtesies of the Museum.

SECTION 7. Any person contributing to the Museum One Thousand Dollars (\$1,000.00) or more in cash, securities, or material, may be elected a Contributor of the Museum. Contributors shall be exempt from all dues and shall enjoy all courtesies of the Museum.

SECTION 8. Any person paying into the treasury the sum of Five Hundred Dollars (\$500.00) at any one time, shall, upon the unanimous vote of the Board, become a Life Member. Life Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to members of the Board of Trustees. Any person residing fifty miles or more from the city of Chicago, paying into the treasury the sum of One Hundred Dollars (\$100.00) at any one time, shall, upon the unanimous vote of the Board, become a Non-Resident Life Member. Non-Resident Life Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to members of the Board of Trustees.

SECTION 9. Any person paying into the treasury of the Museum the sum of One Hundred Dollars (\$100.00) at any one time, shall, upon the vote of the Board,

become an Associate Member. Associate Members shall be exempt from all dues, and shall be entitled to tickets admitting Member and members of family, including non-resident home guests; all publications of the Museum issued during the period of their membership, if so desired; reserved seats for all lectures and entertainments under the auspices of the Museum, provided reservation is requested in advance; and admission of holder of membership and accompanying party to all special exhibits and Museum functions day or evening. Any person residing fifty miles or more from the city of Chicago, paying into the treasury the sum of Fifty Dollars (\$50.00) at any one time, shall, upon the unanimous vote of the Board, become a Non-Resident Associate Member. Non-Resident Associate Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to Associate Members.

SECTION 10. Sustaining Members shall consist of such persons as are selected from time to time by the Board of Trustees at any of its meetings, and who shall pay an annual fee of Twenty-five Dollars (\$25.00), payable within thirty days after notice of election and within thirty days after each recurring annual date. This Sustaining Membership entitles the Member to free admission for the Member and family to the Museum on any day, the Annual Report and such other Museum documents or publications issued during the period of their membership as may be requested in writing. When a Sustaining Member has paid the annual fee of \$25.00 for six years, such Member shall be entitled to become an Associate Member.

SECTION 11. Annual Members shall consist of such persons as are selected from time to time by the Board of Trustees at any of its meetings, and who shall pay an annual fee of Ten Dollars (\$10.00), payable within thirty days after each recurring annual date. An Annual Membership shall entitle the Member to a card of admission for the Member and family during all hours when the Museum is open to the public, and free admission for the Member and family to all Museum lectures and entertainments. This membership will also entitle the holder to the courtesies of the membership privileges of every museum of note in the United States and Canada, so long as the existing system of co-operative interchange of membership tickets shall be maintained, including tickets for any lectures given under the auspices of any of the museums during a visit to the cities in which the co-operative museums are located.

SECTION 12. All membership fees, excepting Sustaining and Annual, shall hereafter be applied to a permanent Membership Endowment Fund, the interest only of which shall be applied for the use of the Museum as the Board of Trustees may order.

ARTICLE II

BOARD OF TRUSTEES

SECTION 1. The Board of Trustees shall consist of twenty-one members. The respective members of the Board now in office, and those who shall hereafter be elected, shall hold office during life. Vacancies occurring in the Board shall be filled at a regular meeting of the Board, upon the nomination of the Executive Committee made at a preceding regular meeting of the Board, by a majority vote of the members of the Board present.

SECTION 2. Regular meetings of the Board shall be held on the third Monday of the month. Special meetings may be called at any time by the President, and shall be called by the Secretary upon the written request of three Trustees. Five Trustees shall constitute a quorum, except for the election of officers or the adoption of the Annual Budget, when seven Trustees shall be required, but meetings may be adjourned by any less number from day to day, or to a day fixed, previous to the next regular meeting.

SECTION 3. Reasonable written notice, designating the time and place of holding meetings, shall be given by the Secretary.

ARTICLE III

HONORARY TRUSTEES

SECTION 1. As a mark of respect, and in appreciation of services performed for the Institution, any Trustee who by reason of inability, on account of change

of residence, or for other cause or from indisposition to serve longer in such capacity shall resign his place upon the Board, may be elected, by a majority of those present at any regular meeting of the Board, an Honorary Trustee for life. Such Honorary Trustee will receive notice of all meetings of the Board of Trustees, whether regular or special, and will be expected to be present at all such meetings and participate in the deliberations thereof, but an Honorary Trustee shall not have the right to vote.

ARTICLE IV

OFFICERS

SECTION 1. The officers shall be a President, a First Vice-President, a Second Vice-President, a Third Vice-President, a Secretary, an Assistant Secretary and a Treasurer. They shall be chosen by ballot by the Board of Trustees, a majority of those present and voting being necessary to elect. The President, the First Vice-President, the Second Vice-President, and the Third Vice-President shall be chosen from among the members of the Board of Trustees. The meeting for the election of officers shall be held on the third Monday of January of each year, and shall be called the Annual Meeting.

SECTION 2. The officers shall hold office for one year, or until their successors are elected and qualified, but any officer may be removed at any regular meeting of the Board of Trustees by a vote of two-thirds of all the members of the Board. Vacancies in any office may be filled by the Board at any meeting.

SECTION 3. The officers shall perform such duties as ordinarily appertain to their respective offices, and such as shall be prescribed by the By-Laws, or designated from time to time by the Board of Trustees.

ARTICLE V

THE TREASURER

SECTION 1. The Treasurer shall be custodian of the funds of the Corporation, except as hereinafter provided. He shall make disbursements only upon warrants, signed by such officer, or officers, or other persons as the Board of Trustees may from time to time designate.

SECTION 2. The securities and muniments of title belonging to the corporation shall be placed in the custody of some Trust Company of Chicago to be designated by the Board of Trustees, which Trust Company shall collect the income and principal of said securities as the same become due, and pay same to the Treasurer, except as hereinafter provided. Said Trust Company shall allow access to and deliver any or all securities or muniments of title to the joint order of the following officers, namely: the President or one of the Vice-Presidents, jointly with the Chairman, or one of the Vice-Chairmen, of the Finance Committee of the Museum. The President or any one of the Vice-Presidents, jointly with either the Chairman or any one of the other members of the Finance Committee, are authorized and empowered (a) to sell, assign and transfer as a whole or in part the securities owned by or registered in the name of the Chicago Natural History Museum, and, for that purpose, to endorse certificates in blank or to a named person, appoint one or more attorneys, and execute such other instruments as may be necessary, and (b) to cause any securities belonging to this Corporation now, or acquired in the future, to be held or registered in the name or names of a nominee or nominees designated by them.

SECTION 3. The Treasurer shall give bond in such amount, and with such sureties as shall be approved by the Board of Trustees.

SECTION 4. The Harris Trust & Savings Bank of Chicago shall be Custodian of "The N. W. Harris Public School Extension of the Chicago Natural History Museum" fund. The bank shall make disbursements only upon warrants drawn by the Director and countersigned by the President. In the absence or inability of the Director, warrants may be signed by the Chairman of the Finance Committee, and in the absence or inability of the President, may be countersigned by one of the Vice-Presidents, or any member of the Finance Committee.

ARTICLE VI

THE DIRECTOR

SECTION 1. The Board of Trustees shall elect a Director of the Museum, who shall remain in office until his successor shall be elected. He shall have immediate charge and supervision of the Museum, and shall control the operations of the Institution, subject to the authority of the Board of Trustees and its Committees. The Director shall be the official medium of communication between the Board, or its Committees, and the scientific staff and maintenance force.

SECTION 2. There shall be four scientific Departments of the Museum—Anthropology, Botany, Geology, and Zoology—each under the charge of a Chief Curator, subject to the authority of the Director. The Chief Curators shall be appointed by the Board upon the recommendation of the Director, and shall serve during the pleasure of the Board. Subordinate staff officers in the scientific Departments shall be appointed and removed by the Director upon the recommendation of the Chief Curators of the respective Departments. The Director shall have authority to employ and remove all other employees of the Museum.

SECTION 3. The Director shall make report to the Board at each regular meeting, recounting the operations of the Museum for the previous month. At the Annual Meeting, the Director shall make an Annual Report, reviewing the work for the previous year, which Annual Report shall be published in pamphlet form for the information of the Trustees and Members, and for free distribution in such number as the Board may direct.

ARTICLE VII

THE AUDITOR

SECTION 1. The Board shall appoint an Auditor, who shall hold his office during the pleasure of the Board. He shall keep proper books of account, setting forth the financial condition and transactions of the Corporation, and of the Museum, and report thereon at each regular meeting, and at such other times as may be required by the Board. He shall certify to the correctness of all bills rendered for the expenditure of the money of the Corporation.

ARTICLE VIII

COMMITTEES

SECTION 1. There shall be five Committees, as follows: Finance, Building, Auditing, Pension, and Executive.

SECTION 2. The Finance Committee shall consist of not less than five or more than seven members, the Auditing and Pension Committees shall each consist of three members, and the Building Committee shall consist of five members. All members of these four Committees shall be elected by ballot by the Board at the Annual Meeting, and shall hold office for one year, and until their successors are elected and qualified. In electing the members of these Committees, the Board shall designate the Chairman and Vice-Chairman by the order in which the members are named in the respective Committee; the first member named shall be Chairman, the second named the Vice-Chairman, and the third named, Second Vice-Chairman, succession to the Chairmanship being in this order in the event of the absence or disability of the Chairman.

SECTION 3. The Executive Committee shall consist of the President of the Board, the Chairman of the Finance Committee, the Chairman of the Building Committee, the Chairman of the Auditing Committee, the Chairman of the Pension Committee, and three other members of the Board to be elected by ballot at the Annual Meeting.

SECTION 4. Four members shall constitute a quorum of the Executive Committee, and in all standing Committees two members shall constitute a quorum. In the event that, owing to the absence or inability of members, a quorum of the regularly elected members cannot be present at any meeting of any Committee, then the Chairman thereof, or his successor, as herein provided, may summon any members of the Board of Trustees to act in place of the absentee.

SECTION 5. The Finance Committee shall have supervision of investing the endowment and other funds of the Corporation, and the care of such real estate as may become its property. It shall have authority to make and alter investments from time to time, reporting its actions to the Board of Trustees. The Finance Committee is fully authorized to cause any funds or investments of the Corporation to be made payable to bearer, and it is further authorized to cause real estate of the Corporation, its funds and investments, to be held or registered in the name of a nominee selected by it.

SECTION 6. The Building Committee shall have supervision of the construction, reconstruction, and extension of any and all buildings used for Museum purposes.

SECTION 7. The Executive Committee shall be called together from time to time as the Chairman may consider necessary, or as he may be requested to do by three members of the Committee, to act upon such matters affecting the administration of the Museum as cannot await consideration at the Regular Monthly Meetings of the Board of Trustees. It shall, before the beginning of each fiscal year, prepare and submit to the Board an itemized Budget, setting forth the probable receipts from all sources for the ensuing year, and make recommendations as to the expenditures which should be made for routine maintenance and fixed charges. Upon the adoption of the Budget by the Board, the expenditures stated are authorized.

SECTION 8. The Auditing Committee shall have supervision over all accounting and bookkeeping, and full control of the financial records. It shall cause the same, once each year, or oftener, to be examined by an expert individual or firm, and shall transmit the report of such expert individual or firm to the Board at the next ensuing regular meeting after such examination shall have taken place.

SECTION 9. The Pension Committee shall determine by such means and processes as shall be established by the Board of Trustees to whom and in what amount the Pension Fund shall be distributed. These determinations or findings shall be subject to the approval of the Board of Trustees.

SECTION 10. The Chairman of each Committee shall report the acts and proceedings thereof at the next ensuing regular meeting of the Board.

SECTION 11. The President shall be ex-officio a member of all Committees and Chairman of the Executive Committee. Vacancies occurring in any Committee may be filled by ballot at any regular meeting of the Board.

ARTICLE IX

NOMINATING COMMITTEE

SECTION 1. At the November meeting of the Board each year, a Nominating Committee of three shall be chosen by lot. Said Committee shall make nominations for membership of the Finance Committee, the Building Committee, the Auditing Committee, and the Pension Committee, and for three members of the Executive Committee, from among the Trustees, to be submitted at the ensuing December meeting and voted upon at the following Annual Meeting in January.

ARTICLE X

SECTION 1. Whenever the word "Museum" is employed in the By-Laws of the Corporation, it shall be taken to mean the building in which the Museum as an Institution is located and operated, the material exhibited, the material in study collections, or in storage, furniture, fixtures, cases, tools, records, books, and all appurtenances of the Institution and the workings, researches, installations, expenditures, field work, laboratories, library, publications, lecture courses, and all scientific and maintenance activities.

SECTION 2. The By-Laws, and likewise the Articles of Incorporation, may be amended at any regular meeting of the Board of Trustees by a vote in favor thereof of not less than two-thirds of all the members present, provided the amendment shall have been proposed at a preceding regular meeting.

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